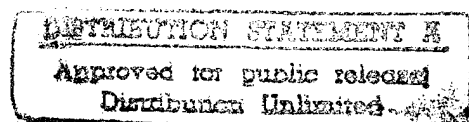




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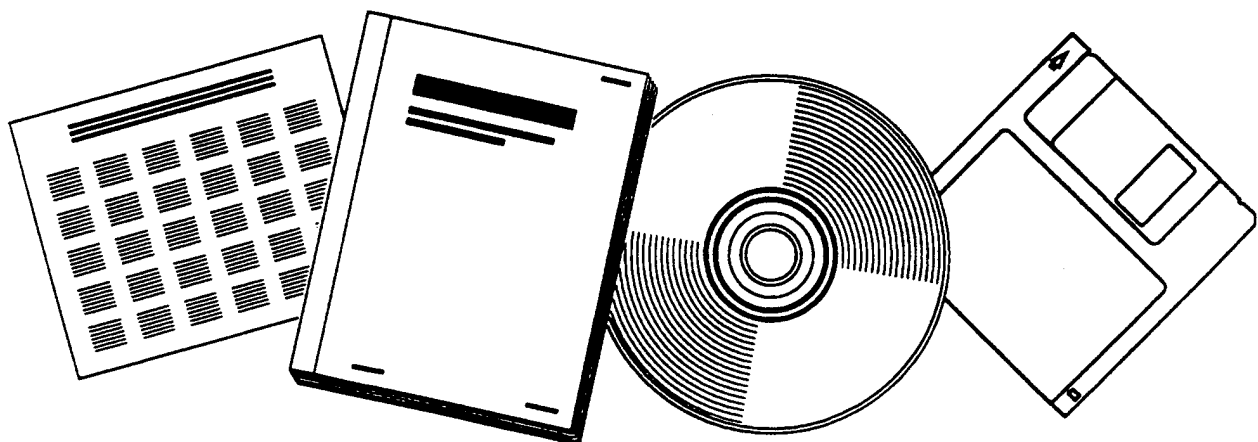
# RESEARCH, DEVELOPMENT, TEST AND EVALUATION PROGRAM (R-1), DEPARTMENT OF DEFENSE BUDGET FOR FISCAL YEAR 1986



THE DEPARTMENT OF DEFENSE  
WASHINGTON, DC

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FY 1986		Test			
Budget		Evaluation			
Research		R,D,T&E Program			
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## Preface

The R.D.T. & E. Programs (R-1) exhibit is derived from and consistent with the DoD Five Year Defense Program R.D.T. & E. Annex data base.

The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmission by the President of the Budget of the United States Government. It is accompanied by an automated data base submission to the House Committee on Administration for input to the House Information System. An unclassified version is provided to OASD(PA) for use by non-DoD activities.

Office of the Assistant Secretary of Defense  
Comptroller

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Classified by: Multiple sources  
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**TABLE OF CONTENTS**

	<b><u>PAGE</u></b>
<b><u>DoD Component Summary</u></b>	
<b><u>Army</u></b>	
Army Summary	II & III
Army R-1	
<b><u>Navy</u></b>	
Navy Summary	A-I
Navy R-1	A-1 through A-14
<b><u>Air Force</u></b>	
Air Force Summary	N-I
Air Force R-1	N-1 through N-17
<b><u>Defense Agencies</u></b>	
Defense Agency Summary	F-I
Defense Agency R-1	F-1 through F-14
Director, Test and Evaluation Summary	
Director, Test and Evaluation R-1	D-I
Individual Defense Agency R-1	D-1 through D-4
	D-5
	D-6
	D-7 through D-19

1-0

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DEPARTMENT OF DEFENSE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

## SUMMARY

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

	FY 1984	FY 1985	FY 1986	FY 1987
SUMMARY BY APPROPRIATION				
RESEARCH DEVELOPMENT TEST + EVAL, ARMY	4,215,375	4,378,115	5,279,900	5,728,067
RESEARCH DEVELOPMENT TEST + EVAL, NAVY	7,629,418	9,274,106	11,264,300	11,808,351
RESEARCH DEVELOPMENT TEST + EVAL, AF	12,275,206	13,506,247	15,578,500	16,573,094
RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES	2,769,420	4,238,327	7,053,900	8,390,100
DIRECTOR OF TEST + EVALUATION, DEFENSE	49,000	59,000	103,500	107,700
TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION	26,938,419	31,451,795	39,280,100	42,607,312
SUMMARY RECAP OF RESEARCH CATEGORIES				
RESEARCH	843,005	860,811	970,837	1,111,693
EXPLORATORY DEVELOPMENT	2,212,048	2,260,932	2,555,244	2,848,092
ADVANCED DEVELOPMENT	5,936,340	6,837,131	11,682,796	14,069,595
ENGINEERING DEVELOPMENT	9,165,090	10,918,757	10,747,398	10,730,113
MANAGEMENT AND SUPPORT	2,406,478	2,435,767	2,743,737	3,006,853
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	20,562,961	23,311,398	28,700,012	31,768,346
OPERATIONAL SYSTEMS DEVELOPMENT	6,375,458	8,140,397	10,580,088	10,840,968
TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION	26,938,419	31,451,795	39,280,100	42,607,312

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FY 1986 R D T & E PROGRAM

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## SUMMARY

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

	FY 1984	FY 1985	FY 1986	FY 1987
SUMMARY RECAP OF BUDGET ACTIVITIES				
TECHNOLOGY BASE	3,055,053	3,121,048	3,525,106	3,957,831
ADVANCED TECHNOLOGY DEVELOPMENT	1,352,245	2,765,808	5,461,303	6,988,532
STRATEGIC PROGRAMS	7,877,657	8,358,953	8,555,622	8,735,075
TACTICAL PROGRAMS	7,929,281	9,498,201	12,395,172	13,365,417
INTELLIGENCE AND COMMUNICATIONS	3,405,984	3,956,571	5,031,063	4,991,822
DEFENSEWIDE MISSION SUPPORT	3,318,199	3,751,214	4,311,834	4,568,635
TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION	26,938,419	31,451,795	39,280,100	42,607,312

## SUMMARY RECAP OF FYDP PROGRAMS

STRATEGIC FORCES	725,813	803,791	1,205,231	1,221,918
GENERAL PURPOSE FORCES	1,473,369	2,052,570	2,631,094	2,645,541
INTELLIGENCE AND COMMUNICATIONS	4,082,921	5,021,964	6,345,303	6,576,798
AIRLIFT/SEALIFT	20,639	32,116	69,598	42,957
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	20,562,961	23,311,398	28,700,012	31,766,346
CENTRAL SUPPLY AND MAINTENANCE	63,858	215,787	317,849	340,521
TRAINING MEDICAL AND OTHER	2,846	5,208	5,300	6,895
ADMINISTRATION AND ASSOC ACTIVITIES		5,200	1,174	1,469
SUPPORT OF OTHER NATIONS	6,012	3,761	4,539	4,869
TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION	26,938,419	31,451,795	39,280,100	42,607,312

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PAGE 111

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DEPARTMENT OF THE ARMY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

LINE ELEMENT NO	PROGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1987 C E
				FY 1984	FY 1985	FY 1986	FY 1987 C	
237	65301A	KWAJALEIN MISSILE RANGE	6	142,341	166,265	161,624	163,237	U
238	65502A	SML BUSINESS INNOVATIVE RESEARCH	6	8,420	18,323			U
239	65702A	SUPPORT OF DEVELOPMENT TESTING	6	46,989	45,333	58,671	62,375	U
240	65706A	MATERIEL SYSTEMS ANALYSIS	6	14,756	15,360	15,930	17,068	U
241	65709A	EXPLOITATION OF FOREIGN ITEMS	6	2,602	2,669	3,569	4,102	U
242	65712A	SUPPORT OF OPERATIONAL TESTING	6	53,125	51,296	54,855	65,658	U
243	65716A	THREAT SIMULATORS FOR TESTING	6			36,149	31,226	U
244	65801A	PROGRAM-WIDE ACTIVITIES	6	68,895	69,935	183,766	204,031	U
245	65802A	INTL COOPERATIVE RESEARCH AND DEV	6	851	791	947	990	U
246	65803A	TECHNICAL INFO ACTIVITIES	6	5,288	5,557	6,265	6,883	U
247	65804A	DARCOM MAJOR RANGE/TEST FACIL	6	300,779	323,257	373,054	421,379	U
248	65805A	MUNITIONS-NATO STDZN DOD EFFEC SAFETY STDS	6	7,159	6,746	11,626	11,839	U
249	65806A	DOD HIGH ENERGY LASER SYSTEMS TEST FAC	6	37,093	32,811	20,184	20,340	U
250	65808A	MM AND T/MACI	6	73,683				U
251	65872A	PRODUCTIVITY INVESTMENTS	6	20,728	11,257	23,335	13,092	U
252	65898A	MGT HQ (RESEARCH/DEVELOPMENT)	6	42,873	41,017	11,852	12,120	U



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DEPARTMENT OF THE ARMY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1987 C E
			FY 1984	FY 1985	FY 1986	FY 1987 C	
219	33145A EUCOM C3 SYSTEMS	4	2,811	7,503	1,961	1,419	U
	TACTICAL PROGRAMS		1,725,718	1,891,375	2,366,366	2,615,490	
220	63712A MAPPING AND GEODESY	5	739	2,937	4,205		U
221	64201A AIRCRAFT AVIONICS	5	3,194	2,094	2,238	5,080	U
222	64716A MAPPING AND GEODESY	5		3,864	3,430	3,241	U
223	64778A NAVSTAR GLOBAL POS SYS (USER EQ)	5	5,777	13,481	11,271	7,470	U
224	31307A FOREIGN SCIENCE AND TECHNOLOGY CENTER	5					
225	31327A TECH RECONNAISSANCE/SURVEILLANCE (TECRAS)	5					
226	31334A OTHER COMMAND GDIP ACTIVITIES	5					
227	31359A SPECIAL ARMY PROGRAMS	5					
228	33111A STRATEGIC ARMY COMMUNICATIONS (STARCOM)	5	903	1,042			U
229	33126A LONG-HAUL COMMUNICATIONS (DCS)	5	11,389	8,720	4,312	3,917	U
230	33142A SATCOM GROUND ENVIRONMENT	5	45,865	15,992	26,755	26,809	U
231	33401A COMMUNICATIONS SECURITY	5	11,939	11,398			
	INTELLIGENCE AND COMMUNICATIONS		85,054	65,521	68,491	62,062	
232	63315A TARGET MISSILES	6		981	6,051	15,767	U
233	63738A NONSYSTEMS TRAINING DEVICES (NSTD) DEV	6	1,501	4,441	5,863	8,324	U
234	64715A NON-SYSTEM TNG DEVICES ENGR	6	16,103	32,372	43,636	55,772	U
235	64726A METEOROLOGICAL EQUIPMENT SYSTEMS	6	5,099	9,572	6,447	3,305	U
236	65201A AVIATION ENGINEERING FLIGHT ACTIVITY	6	6,524	7,587	11,720	12,690	U

PAGE A-12

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FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

LINE NO	PROGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
THOUSANDS OF DOLLARS							
203	64770A	JOINT SURVEILLANCE/TARGET ATTACK RADAR SYSTEM	4	67,750	50,000	43,818	29,194 U
204	64779A	JT INTEROP OF TAC CMD & CONT SYS (JINTACCS)	4	22,956	43,818	8,381	8,877 U
205	65710A	JT CB CONTACT POINT TEST AND ASSESSMENT	4	1,764	2,346	2,402	2,498 U
206	23724A	HV ANTI-TANK ASSAULT WPN SYS (TGW)	4	4,789	9,874	11,836	6,607 U
207	23726A	ADV FIELD ARTILLERY TACTICAL DATA SYSTEM	4	25,117	32,942	35,574	46,212 U
208	23727A	MED ANTI-TANK ASSAULT WPN (H)	4		2,000	3,842	U
209	23730A	CHAPARRAL	4	20,231	17,547	17,666	U
210	23731A	SAM HAWK/HAWK IMP PROG	4	32,645	18,785	5,212	9,623 U
211	23735A	COMBAT VEHICLE IMPROVEMENT PROGRAM	4	81,521	115,159	72,743	21,176 U
212	23739A	AN/TSG-73 MODIFICATIONS	4				4,635 U
213	23740A	MANEUVER CONTROL SYSTEM (MCS)	4	12,373	21,869	8,636	8,681 U
214	23741A	PROD IMPR VULCAN AIR DEF SYS	4	3,459			U
215	23743A	155MM SELF-PROPELLED HOWITZER IMPROVEMENTS	4	27,744	27,712	26,105	68,876 U
216	23744A	AIRCRAFT MODIFICATIONS	4	16,434	3,600		U
217	23745A	EQUIPMENT UPGRADE	4		10,524	30,805	28,775 U
218	26010A	JOINT TACTICAL COMMO PROGRAM (TRI-TAC)	4	70,735	44,442	30,560	10,690 U

PAGE A-11

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FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1987 C E
			FY 1984	FY 1985	FY 1986		
182	64711A AIRCRAFT SURVIVABILITY EQUIPMENT	4	17,774	4,572	24,777	17,578	U
183	64712A ARMY CMD AND CONTROL SYSTEM (ACCS) SYS ENGR	4	10,632	10,558	9,896	8,247	U
184	64713A COMBAT FEEDING, CLOTHING AND EQUIPMENT	4	3,167	2,976	6,461	6,077	U
185	64714A TACTICAL ELECTRIC POWER SOURCES	4	5,717	10,874	10,122	14,989	U
186	64717A GENERAL COMBAT SUPPORT	4	10,500	17,960	14,822	15,442	U
187	64718A PHYSICAL SECURITY	4	8,683	7,592	6,496	7,450	U
188	64722A EDUCATION AND TRAINING	4	6,000	7,703	6,611	6,575	U
189	64723A SPECIAL PURPOSE DETECTORS	4		3,315	3,256	1,512	U
190	64724A CMC BIO DETECTION WARNING & TRG MATERIAL	4	876	11,273	23,081	30,374	U
191	64725A CHEM BIO PROTECTIVE MATERIEL	4	22,792	24,316	15,585	16,937	U
192	64727A COMMAND AND CONTROL	4	19,030	14,713	5,799	576	U
193	64730A REMOTELY PILOTED VEHICLES	4	126,153	95,671	30,014	16,435	U
194	64740A TACTICAL SURVEILLANCE SYSTEM	4	11,240	16,494			
195	64741A DIVISION AIR DEFENSE COMMAND AND CONTROL	4	34,148	50,356	33,040	57,823	U
196	64745A AUTOMATIC TEST EQUIPMENT DEVELOPMENT	4		10,807	21,310	24,051	U
197	64750A TACTICAL ELECTRONIC COUNTERMEASURES SYSTEMS	4	8,686	40,831			
198	64751A SINGLE CHANNEL GRD/ABN RADIO SUB ENG	4	7,397	8,681	12,674	8,454	U
199	64754A CLASSIFIED PROGRAM (ENG)	4					
200	64757A MEDICAL CHEMICAL DEFENSE LIFE SPT MAT	4	4,669	12,684	7,680	26,104	U
201	64758A DRUG AND VACCINE DEVELOPMENT	4	4,669	9,769	10,497	10,391	U
202	64766A TACTICAL ELECTRONIC SURVEILLANCE SYS	4	13,174	16,121			

PAGE A-10

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DEPARTMENT OF THE ARMY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

LINE NO	PROGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT ---	THOUSANDS OF DOLLARS					U
				FY 1984	FY 1985	FY 1986	FY 1987 C		
161	64321A	JOINT TACTICAL FUSION PROGRAM	4	54,549	72,980				
162	64323A	HIGH TECHNOLOGY MOTORIZED DIVISION	4	13,120					
163	64324A	JOINT TACTICAL MISSILE SYSTEM-ARMY (JTACMS-A)	4	50,160	76,378	154,805	206,960		U
164	64601A	INFANTRY SUPPORT WEAPONS	4	6,788	31,835	24,003	16,484		U
165	64603A	NUCLEAR MUNITIONS	4	10,296	14,943				
166	64604A	MOBILITY	4			15,486	30,653		U
167	64609A	SMOKE MUNITIONS & MATERIEL	4	2,465	8,124	6,024	8,195		U
168	64612A	COUNTERMINE AND BARRIERS	4	3,719	4,714	10,417	13,324		U
169	64616A	FIGHTING VEHICLE SYS	4	26,526	14,268	2,228			U
170	64619A	LANDMINE WARFARE	4	9,444	11,985	7,954	9,876		U
171	64630A	M1 E1 DEVELOPMENT PROGRAM	4	58,883	52,823	3,898	12,752		U
172	64631A	FIELD ARTILLERY AMMUNITION	4	6,399	5,578	62,590	23,011		U
173	64632A	105MM TANK AMMUNITION	4	142	10,004	1,543			U
174	64633A	CACTUS PLANT	4						
175	64701A	COMM ENGINEERING DEV	4	12,594	9,772	10,716	9,737		U
176	64702A	JT TAC INFO DIST SYS (JTIDS)	4	21,603	21,131	12,243	11,022		U
177	64704A	UNATTENDED GROUND SENSORS	4	5,000		2,940	3,917		U
178	64705A	MODULAR INTEGRATED COMM AND NAVIGATION SYS	4	13,038	5,911	5,007	4,924		U
179	64706A	RADIOLOGICAL DEFENSE EQUIPMENT	4	927	288	664	3,121		U
180	64709A	IDENTIFICATION FRIEND OR FOE EQUIPMENT DEV	4	4,496	5,038				U
181	64710A	NIGHT VISION DEVICES	4	6,424	10,800	14,567	11,037		U

PAGE A-9

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DEPARTMENT OF THE ARMY  
FY 1986 R D T & E PROGRAM

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APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	THOUSANDS OF DOLLARS
140	63755A TACTICAL ELECTRONIC COUNTERMEASURES SYSTEMS	4	53,413	74,505			U
141	63764A MEDICAL CHEM DEFENSE LIFE SUPPORT MAT	4	23,820				U
142	63766A TACTICAL ELECTRONIC SURVEILLANCE SYS	4	5,100	9,339			U
143	63767A COMBAT SERVICE SUPPORT CONTROL SYS	4		190	980	979	U
144	64202A AIRCRAFT WEAPONS	4	549	4,979	12,872		U
145	64204A AIR MOBILITY SUPPORT EQUIPMENT	4	3,733	4,001	2,600	5,062	U
146	64206A UH-60 BLACKHAWK	4	15,000				U
147	64207A ADVANCED ATTACK HELICOPTER (AH-64)	4	21,362	27,688	17,506		U
148	64216A AIRCRAFT PROPULSION SYSTEMS	4		24,376	70,791	115,564	U
149	64217A SYNTHETIC FLIGHT TRAINING SYSTEMS	4	16,687	13,243	7,863	10,786	U
150	64218A AIRDROP EQUIP DEVELOPMENT	4	3,306	4,168	3,141	3,938	U
151	64220A ARMY HELICOPTER IMPROVEMENT PROG	4	54,120	30,890	6,802		U
152	64223A ADVANCED TECHNOLOGY LT HELICOPTER SERIES	4				283,702	U
153	64268A AIRCRAFT COMPONENT IMPROVEMENT PROGRAM	4	11,899	13,560	16,158	19,793	U
154	64306A STINGER	4		5,000	18,583	3,152	U
155	64307A PATRIOT (SAM-D)	4	78,342	61,078	53,070	38,755	U
156	64310A HELIBORNE MISSILE-HELLFIRE	4	1,615	454	6,213	6,271	U
157	64311A PERSHING II	4	21,683				U
158	64313A GRASS BLADE	4	15,904	20,628	10,878	8,635	U
159	64314A MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)	4	3,481	1,851		636	U
160	64318A DIVISION AIR DEFENSE GUN	4		600	43,176	20,568	U

PAGE A-8

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APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	THOUSANDS OF DOLLARS	
							\$ E
119	63705A PHYSICAL SECURITY	4	1,867	3,170	4,416	3,803	U
120	63706A IDENTIFICATION FRIEND OR FOE EQUIP DEVEL	4	8,611	9,671	20,693	15,626	U
121	63707A COMMUNICATIONS DEVELOPMENT	4	1,433	4,215			
122	63709A TACTICAL IMBEDDED COMPUTER PROGRAM	4	20,500				U
123	63711A AIRCRAFT SURVIVABILITY EQUIPMENT	4	3,383	6,767	8,611	9,636	U
124	63713A ARMY DATA DISTRIBUTION SYSTEM (ADDS)	4	22,915	23,011	38,016	15,716	U
125	63718A ELECT WRFR VULNERABILITY/SUCEPTIBILITY	4	19,057	22,474	23,791	30,056	U
126	63720A CHEMICAL/BIO DETECTION WARM/SAMP MAT CONCEPTS	4	25,301	31,686	15,192	21,057	U
127	63721A CML BIO PROTECTIVE MATERIEL CONCEPTS	4	3,153	11,119	9,341	15,752	U
128	63723A COMMAND AND CONTROL	4	23,475	9,901			U
129	63725A REMOTELY PILOTED VEHICLES/DRONES	4			20,977	19,023	U
130	63726A COMBAT SUPPORT EQUIPMENT	4	6,616	15,617	28,363	28,196	U
131	63730A TACTICAL SURVEILLANCE SYSTEM	4	24,228				
132	63732A COMBAT MEDICAL MATERIAL	4	4,913	8,273	9,379	12,435	U
133	63740A SHORT RANGE AIR DEFENSE COMMAND AND CONTROL	4	2,645				U
134	63745A TAC ELECTRONIC SPT MEASURE SYS	4	3,460	4,083			
135	63746A SINGLE CHANNEL GRD/ABN RADIO SUB-SYS	4	3,124	2,151	2,265		U
136	63747A SOLDIER SUPPORT/SURVIVABILITY	4	3,168	4,479	6,657	6,256	U
137	63750A DRUG AND VACCINE DEVELOPMENT	4	12,373	14,407	16,932	17,257	U
138	63751A MEDICAL DEFENSE AGAINST CHEM WARFARE	4	36,960	36,485	31,019	44,405	U
139	63754A CLASSIFIED PROGRAM (ADV)	4					

PAGE A-7

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE ARMY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	THOUSANDS OF DOLLARS
99	33152A WORLDWIDE MILITARY CMD&CNT SYS INF SYS	3	13,188	27,074	30,914	36,377	U
	STRATEGIC PROGRAMS		523,195	224,501	235,657	248,193	
100	63209A AIR MOBILITY SUPPORT	4			15,472	14,114	U
101	63215A JOINT SURVIVABILITY INVESTIGATIONS	4	1,056	986	900	979	U
102	63217A GREATER SLOPE	4	36,955	33,996			U
103	63220A ADVANCED ROTOCRAFT TECH INTEGRATION/LHX	4		48,314	75,528		U
104	63225A AIRDROP EQUIPMENT SYSTEMS	4			1,877	1,317	U
105	63302A ANTI-TACTICAL MISSILE (ATM)	4	17,193	29,275	62,760	85,722	U
106	63303A SURF-TO-SURF MSL ROCKET SYS	4	11,534	35,215	30,622	47,568	U
107	63604A NUCLEAR MUNITIONS AND RADIACS	4	1,998	5,831			
108	63606A WEAPONS AND AMMUNITION	4			798	3,614	U
109	63612A ADVANCED ANTI TANK WEAPON	4		24,782	81,077	108,278	U
110	63615A LETHAL CHEMICAL MUNITIONS CONCEPTS	4	12,389	8,957	20,387	15,375	U
111	63619A LANDMINE/BARRIER SYS	4	12,212	13,215	28,424	31,585	U
112	63627A SMOKE MUNITIONS AND MATERIEL CONCEPTS	4	2,342	2,381	12,672	9,553	U
113	63628A ARTILLERY/MORTAR AMMO DEVELOPMENT	4	32,479	9,416	10,157	10,241	U
114	63633A TANK/FIGHTING VEHICLE AMMO DEVELOPMENT	4	9,721	11,315	5,734		U
115	63635A MOBILE PROTECTED GUN PROGRAM	4	12,479		9,802		U
116	63639A ARMAMENT ENHANCEMENT INITIATIVE (AEI)	4					
117	63641A PROGRAM 292	4					
118	63702A ELECTRIC POWER SOURCES	4	5,955	7,936	11,258	7,674	U

PAGE A-6

UNCLASSIFIED

UNCLASSIFIED  
DEPARTMENT OF THE ARMY  
FY 1986 RDT & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	
			THOUSANDS OF DOLLARS				
84	63748A TEST MEASUREMENT & DIAGNOSTIC EQUIPMENT DEVEL	2	2,961	4,737	7,235	8,202	U
85	63749A TECHNICAL VULNERABILITY REDUCTION	2	5,641	5,979	4,305	4,622	U
86	63752A DEMILITARIZATION CONCEPTS	2	11,052	8,315	9,575	6,366	U
87	63756A DOD SOFTWARE INITIATIVES (STARS)	2	4,875	14,931	52,000	53,593	U
88	63758A TACTICAL ROBOTIC SYSTEMS	2			26,496	26,336	U
89	63759A CB DEF/SMK ADV TECHNOLOGY DEMONSTRATIONS	2	400	1,179	3,045	1,783	U
90	63761A ELEC WRFR VULN/SUSCEP TECH SUPPORT	2	10,568	12,668			
91	63762A ELECTRONIC WARFARE FEASIBILITY DEVELOPMENT	2	12,042	6,652	8,643	9,662	U
92	63763A NONSYSTEMS MEDICAL MATERIAL DEVELOPMENT	2	4,517	13,175	16,221	22,268	U
93	63764A MEDICAL CHEM DEFENSE LIFE SUPPORT MAT	2		32,297	22,612	22,325	U
94	63765A NONTACTICAL ADP TECHNOLOGY	2			210	87	U
	ADVANCED TECHNOLOGY DEVELOPMENT		342,144	476,981	593,348	671,811	
95	63304A BMD ADVANCED TECHNOLOGY	3	153,372				U
96	63308A BALLISTIC MSL DEF SYS TECH	3	320,146				U
97	12814A SPECIAL PROGRAM	3					
98	12821A CLASSIFIED PROGRAM	3					

PAGE A-5

UNCLASSIFIED



## UNCLASSIFIED

DEPARTMENT OF THE ARMY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
63	63324A ARMY DEVEL & EMPLOYMENT ACTIVITY-ADEA	2	36,032	37,517	9,705	15,451 U
64	63602A ADVANCED LAND MOB SYSTEMS CONCEPTS	2	11,450	18,904	16,474	35,200 U
65	63606A LANDMINE WARFARE/BARRIER DEV	2	10,403	12,415	11,267	10,165 U
66	63607A JOINT SERVICE SMALL ARMS PROGRAM (JSSAP)	2	2,986	4,272	3,463	6,297 U
67	63621A COMBAT VEHICLE PROPULSION SYS	2	12,947	13,254	14,967	15,733 U
68	63631A CMBT VEH TURRET AND CHASSIS SUBSYS	2	8,963	14,930	17,036	28,468 U
69	63636A COMBAT VEHICLE ARMOR/ANTI-ARMOR	2	11,944	52,137	11,363	12,448 U
70	63637A ADV PROPULSION/LAUNCH SYS FOR MUN	2	4,547	7,904	8,233	8,569 U
71	63638A NUCLEAR HARDENING ADVANCED TECHNOLOGY	2	500			U
72	63640A AMMUNITION LOGISTICS	2			2,035	2,256 U
73	63710A NIGHT VISION ADVANCED DEVELOPMENT	2	27,916	28,394	33,622	33,972 U
74	63723A TAC CMD COMM & COMPUTER (C4) INTEGRATN	2			31,774	23,977 U
75	63725A REMOTELY PILOTED VEHICLES/DRONES	2	9,596	5,208		U
76	63731A MANPOWER AND PERSONNEL	2	10,080	11,952	16,938	21,065 U
77	63734A ENGINEERING SYSTEMS	2	2,015	1,271	3,450	6,229 U
78	63736A HUMAN FACTORS ENGINEERING APPLICATIONS	2			1,961	2,490 U
79	63737A ANTI-RADIATION MSL COUNTER MEASURES	2	3,654	5,391		
80	63739A HUMAN FACTORS IN TNG/OPER EFFECT	2	4,752	7,837	11,511	12,278 U
81	63742A ADV ELECTRONIC DEVICES DEV	2	2,761	5,748	9,730	8,178 U
82	63743A EDUCATION AND TRAINING	2	7,304	10,126	11,845	12,302 U
83	63744A TRAINING SIMULATION	2	2,432	4,735	5,494	7,602 U

PAGE A-4

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE ARMY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	
							THOUSANDS OF DOLLARS
							-----S
							E
							----
43	62772A COMBAT CASUALTY CARE TECH	1	7,011	8,491	8,892	9,627	U
44	62775A COMBAT MAXILLOFACIAL INJURY	1	2,446	2,242	2,167	2,356	U
45	62777A SYSTEMS HEALTH HAZARD PREVENT TECH	1	17,505	18,433	19,461	22,775	U
46	62781A ENERGY TECH APPL FOR MILITARY FACIL	1	1,754	2,128	2,230	2,626	U
	TECHNOLOGY BASE		684,455	761,447	876,432	917,910	
47	63102A MATERIALS AND STRUCTURES ADVANCED DEVELOPMENT	2	5,678	8,593	14,437	21,992	U
48	63104A FUELS AND LUBRICANTS ADVANCED DEVELOPMENT	2	2,012	3,479	3,384	4,937	U
49	63201A AIRCRAFT POWER PLANTS AND PROPULSION	2	16,406	22,622	21,833	26,295	U
50	63206A AIRCRAFT WEAPONS	2	8,279	7,889	6,946	10,331	U
51	63207A AIRCRAFT AVIONICS EQUIPMENT	2	2,935	22,144	10,970	10,134	U
52	63209A AIR MOBILITY SUPPORT	2	5,003	2,184			U
53	63211A ROTARY WING CONTROLS/ROTORS/STRUCTURES	2	33,031	30,163	31,104	36,814	U
54	63216A SYNTHETIC FLIGHT SIMULATORS DEVELOPMENT	2	9,714	9,052	12,613	19,550	U
55	63218A AIRDROP ADVANCEMENT	2	1,996	3,950	3,854	4,686	U
56	63220A ADVANCED ROTORCRAFT TECH INTEGRATION (ARTI)	2	1,009				U
57	63221A NOE AVIATION AND NAVIGATION EQUIPMENT	2	853	366	3,089	3,917	U
58	63226A CLASSIFIED PROJECTS	2					
59	63306A TERMINALLY GUIDED PROJECTILES	2	2,948	4,922	17,409	29,465	U
60	63313A MSL/ROCKET COMPONENTS	2	16,086	19,689	42,836	34,003	U
61	63314A HI-ENERGY LASER COMPONENTS	2	13,756				U
62	63322A BATTLEFIELD ENVIRONMENT SIMULATION	2			2,570	7,357	U

## UNCLASSIFIED

DEPARTMENT OF THE ARMY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1987 C E
			FY 1984	FY 1985	FY 1986		
22	62704A MIL ENVIRONMENTAL CRITERIA DEV	1	2,345	2,902	3,096		3,514 U
23	62705A ELECTRICAL AND ELECTRONIC DEVICES	1	17,953	20,056	22,871		24,412 U
24	62706A CHEM BIOLOGICAL DEF / GEN INVEST	1	36,425	32,895	41,724		40,662 U
25	62707A MAPPING - GEODESY	1	7,369	7,994	10,364		10,854 U
26	62709A NIGHT VISION INVESTIGATIONS	1	16,164	19,642	22,077		26,233 U
27	62715A TACTICAL ELECTRONIC WARFARE TECHNOLOGY	1	9,159	9,366			
28	62716A HUMAN FACTORS ENG SYS DEV	1	11,424	10,437	15,269		16,238 U
29	62717A HUMAN PERFORMANCE EFFECT/SIMULATION	1	4,980	4,754	6,788		8,012 U
30	62719A MOBILITY AND WEAPONS EFFECTS TECH	1	8,241	9,217	13,363		13,170 U
31	62720A ENVIRONMENTAL QUALITY TECH	1	7,539	11,147	8,912		9,428 U
32	62722A MANPOWER/PERSONNEL/TRAINING	1	5,433	7,191	8,016		8,556 U
33	62723A CLOTHING EQUIP AND SHELTER TECH	1	6,952	8,577	10,537		10,730 U
34	62724A JT SVC FOOD SYS TECH	1	5,382	5,999	6,432		7,573 U
35	62725A COMPUTER AND INFORMATION SCIENCE	1	1,944	2,207	2,216		2,405 U
36	62727A NONSYSTEMS TRAINING DEVICES TECH (NSTD)	1	3,778	4,507	5,103		6,090 U
37	62730A COLD REGIONS ENGINEERING TECHNOLOGY	1	6,437	7,423	6,819		7,810 U
38	62731A MILITARY FACILITIES ENGINEERING TECHNOLOGY	1	6,227	4,597	5,253		6,025 U
39	62739A MOBILITY EQUIPMENT TECHNOLOGY	1	9,534	11,750	13,627		14,684 U
40	62734A MED DEFENSE AGAINST CHEM AGENTS	1	29,509	29,266	32,309		31,799 U
41	62746A TACTICAL ADP TECH	1	5,888		9,066		8,450 U
42	62770A MILITARY DISEASE HAZARDS TECH	1	25,261	22,046	28,990		35,866 U

PAGE A-2

UNCLASSIFIED

UNCLASSIFIED  
DEPARTMENT OF THE ARMY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST &amp; EVAL, ARMY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
						THOUSANDS OF DOLLARS
1	61101A IN-HOUSE LAB INDEPENDENT RESEARCH	1	21,862	24,398	25,280	28,023 U
2	61102A DEFENSE RESEARCH SCIENCES	1	196,139	209,132	236,869	254,558 U
3	61103A UNIVERSITY RESEARCH INITIATIVES	1			6,126	12,242 U
4	62105A MATERIALS	1	11,356	11,870	12,380	14,005 U
5	62111A ATMOSPHERIC INVESTIGATIONS	1	4,479	4,686	6,898	7,783 U
6	62120A NUCLEAR WEAPONS EFFECTS/FLUIDICS	1	10,184	9,477	8,461	11,973 U
7	62122A SURVIVABILITY ENHANCEMENT	1				
8	62201A AIRCRAFT WEAPONS TECHNOLOGY	1	2,784	3,132	3,321	3,414 U
9	62202A AIRCRAFT AVIONICS TECHNOLOGY	1	7,479	8,013	9,766	9,707 U
10	62209A AERONAUTICAL TECHNOLOGY	1	20,289	25,498	31,171	33,879 U
11	62210A AIRDROP TECHNOLOGY	1	1,399	1,791	2,061	2,388 U
12	62303A MISSILE TECHNOLOGY	1	34,526	31,028	31,504	34,278 U
13	62307A LASER WEAPON TECHNOLOGY	1	20,047	21,087	21,392	25,515 U
14	62601A TANK AND AUTOMOTIVE TECHNOLOGY	1	21,987	21,772	22,226	24,995 U
15	62603A LARGE CAL AND NUCLEAR TECHNOLOGY	1	15,550	34,556		
16	62617A SMALL CAL AND FIRE CNTRL TECHNOLOGY	1	8,838	9,116	12,794	9,080 U
17	62618A BALLISTICS TECHNOLOGY	1	18,014	48,683	48,424	37,857 U
18	62622A CHEMICAL AND SMOKE MUNITIONS	1	12,893	12,522	14,062	15,953 U
19	62623A JOINT SERVICE SMALL ARMS PROGRAM (JSSAP)	1	3,530	4,502	6,542	6,065 U
20	62701A COMMUNICATIONS TECH	1	12,201	15,151	21,403	19,460 U
21	62703A COMBAT SURVEILL TARGET ACQUIS & IDENT	1	4,218	4,768	4,407	3,323 U

PAGE A-1.0

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DEPARTMENT OF THE ARMY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

## SUMMARY

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

## SUMMARY RECAP OF RESEARCH CATEGORIES

RESEARCH  
EXPLORATORY DEVELOPMENT  
ADVANCED DEVELOPMENT  
ENGINEERING DEVELOPMENT  
MANAGEMENT AND SUPPORT  
  
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)  
OPERATIONAL SYSTEMS DEVELOPMENT  
  
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, ARMY

218,001	233,528	268,275	294,823
466,454	527,919	608,157	623,087
1,283,730	1,022,242	1,496,696	1,503,123
990,440	1,101,553	1,296,817	1,672,947
833,870	818,770	875,949	1,049,528
3,792,495	3,704,012	4,647,894	5,143,506
422,880	672,103	632,006	584,561
4,215,375	4,376,115	5,279,900	5,728,067

## SUMMARY RECAP OF BUDGET ACTIVITIES

TECHNOLOGY BASE  
ADVANCED TECHNOLOGY DEVELOPMENT  
STRATEGIC PROGRAMS  
TACTICAL PROGRAMS  
INTELLIGENCE AND COMMUNICATIONS  
DEFENSEWIDE MISSION SUPPORT  
  
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, ARMY

684,455	761,447	876,432	917,910
342,144	476,981	593,348	671,811
523,195	224,501	235,657	246,183
1,725,718	1,891,375	2,366,366	2,615,490
85,054	65,521	68,491	62,062
854,809	956,290	1,139,606	1,214,611
4,215,375	4,376,115	5,279,900	5,728,067

## SUMMARY RECAP OF FYDP PROGRAMS

STRATEGIC FORCES  
GENERAL PURPOSE FORCES  
INTELLIGENCE AND COMMUNICATIONS  
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)  
CENTRAL SUPPLY AND MAINTENANCE  
  
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, ARMY

36,489	197,427	204,743	209,806
295,048	304,454	242,979	206,275
91,343	77,722	80,222	84,067
3,792,495	3,704,012	4,647,894	5,143,506
---	92,500	104,062	84,413
4,215,375	4,376,115	5,279,900	5,728,067

PAGE A-1

UNCLASSIFIED

UNCLASSIFIED  
DEPARTMENT OF THE ARMY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO NUMBER	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1987 C
			FY 1984	FY 1985	FY 1986	FY 1987 C	
253	78011A INDUSTRIAL PREPAREDNESS	6		92,500	104,062		84,413 U
	DEFENSEWIDE MISSION SUPPORT		854,809	956,290	1,139,606		1,214,611
TOTAL	RESEARCH DEVELOPMENT TEST + EVAL, ARMY		4,215,375	4,376,115	5,279,900		5,728,067

PAGE A-14

UNCLASSIFIED



## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

## SUMMARY

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

	FY 1984	FY 1985	FY 1986	FY 1987
SUMMARY RECAP OF RESEARCH CATEGORIES				
RESEARCH	319,179	341,211	371,703	431,695
EXPLORATORY DEVELOPMENT	446,294	441,695	481,466	573,288
ADVANCED DEVELOPMENT	2,947,103	2,056,558	2,996,939	3,253,616
ENGINEERING DEVELOPMENT	2,291,717	4,363,910	4,711,176	4,824,300
MANAGEMENT AND SUPPORT	587,523	607,078	620,528	676,064
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	6,591,816	7,810,450	9,171,812	9,558,963
OPERATIONAL SYSTEMS DEVELOPMENT	1,037,602	1,483,658	2,092,488	2,249,388
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, NAVY	7,629,418	9,274,108	11,264,300	11,808,351
SUMMARY RECAP OF BUDGET ACTIVITIES				
TECHNOLOGY BASE	765,473	782,906	853,169	1,004,983
ADVANCED TECHNOLOGY DEVELOPMENT	226,548	169,673	239,449	328,535
STRATEGIC PROGRAMS	1,762,707	2,294,890	2,482,030	2,112,529
TACTICAL PROGRAMS	3,916,887	4,876,230	6,160,962	6,678,427
INTELLIGENCE AND COMMUNICATIONS	345,400	423,109	704,007	756,984
DEFENSEWIDE MISSION SUPPORT	612,403	728,296	824,683	926,893
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, NAVY	7,629,418	9,274,108	11,264,300	11,808,351
SUMMARY RECAP OF FYDP PROGRAMS				
STRATEGIC FORCES	270,907	235,866	274,412	345,993
GENERAL PURPOSE FORCES	540,708	873,449	1,084,246	1,105,353
INTELLIGENCE AND COMMUNICATIONS	225,987	303,846	661,404	707,993
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	6,591,816	7,810,450	9,171,812	9,558,963
CENTRAL SUPPLY AND MAINTENANCE		50,495	72,426	90,049
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, NAVY	7,629,418	9,274,108	11,264,300	11,808,351



UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

PROGRAM  
ELEMENT  
NO NUMBER

ITEM NOMENCLATURE

THOUSANDS OF DOLLARS  
FY 1985  
FY 1986  
FY 1987 C

1	61103N	UNIVERSITY RESEARCH	1		6,250	12,500 U
2	61152N	IN-HOUSE INDEPEND LAB RES	1	23,385	26,277	28,356 U
3	61153N	DEFENSE RESEARCH SCIENCES	1	295,794	315,584	390,839 U
4	62101N	TACT DIRECTED ENERGY TECH	1		8,987	13,028 U
5	62241N	AIRCRAFT TECHNOLOGY	1	24,835	25,478	28,115 U
6	62331N	MISSILE PROPULSION TECH	1	9,233	10,276	12,024 U
7	62332N	SURF/AEROSPACE WPNRY TECH	1	26,816	26,045	33,221 U
8	62542N	NUCLEAR PROPULSION TECH	1	46,348	47,845	48,541 U
9	62543N	SHIP AND SUBMARINE TECH	1	32,783	29,811	30,270 U
10	62633N	UNDERSEA WARFARE WPNRY TECH	1	24,710	30,077	50,565 U
11	62711N	U/S TARGET SURV TECH	1	41,344	40,112	52,801 U
12	62712N	SURF/AEROSP TGT SURV TECH	1	34,911	32,040	41,956 U
13	62721N	COMMAND AND CONTROL TECH	1	30,643	30,656	38,003 U
14	62734N	COUNTERMEASURES TECH	1	27,818	20,848	34,387 U
15	62744N	M C AIR-GROUND TECHNOLOGY	1		18,499	20,848 U
16	62757N	HUMAN FACTORS&SIM TECH	1	6,557	6,951	8,961 U
17	62758N	BIOMEDICAL TECH	1	7,891	8,858	10,219 U
18	62759N	OCEAN AND ATMOS SUPT TECH	1	19,233	24,168	31,237 U
19	62760N	LOGISTICS TECH	1	13,608	14,596	18,328 U
20	62761N	MATERIALS TECH	1	35,611	35,651	40,428 U
21	62762N	ELEX DEVICE TECH	1	25,351	27,662	33,864 U

PAGE N-1

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	THOUSANDS OF DOLLARS
22	62763N PERSONNEL & TRNG TECH	1	5,811	5,433	5,062	6,000	U
23	62764N CHEM/BIOLOG/RADIOLOG DEF TECH	1	3,823	4,899	4,765	5,818	U
24	62765N ENERGY & ENVIRON PROT TECH	1	3,526				U
25	62766N LAB INDEP EXPLORATORY DEV	1	12,081	13,304	15,463	16,694	U
26	62768N DIRECTED ENERGY TECH	1	13,363				U
	TECHNOLOGY BASE		765,473	782,906	853,169	1,004,983	
27	63202N AVIONICS	2	2,497	1,700	4,909	3,924	U
28	63207N AIR/OCEAN TACT APPLIC	2	5,941	6,304	6,946	11,397	U
29	63210N ADV A/C PROPUL SYS	2	5,911	5,005	6,641	4,052	U
30	63216N AVIATION LIFE SUPT SYS	2	595	1,121	1,377	1,366	U
31	63217N ADV A/C SUBSYSTEMS	2	2,944	4,746	4,684	12,482	U
32	63303N ERASE	2	24,801	4,505	10,149	6,599	U
33	63306N ASM TECH	2	2,000		6,973	14,714	U
34	63308N AAM TECH	2	3,956	2,915		4,905	U
35	63508N SHIP PROP SYS (ADV)	2	32,651	44,091	30,664	40,662	U
36	63526N ADV COMPUTER TECH	2	6,912	11,214	14,555	15,667	U
37	63573N ELECTRIC DRIVE	2	8,585		9,762		U
38	63609N CONVENTIONAL MUNITIONS	2	8,073	10,270	30,334	49,156	U
39	63654N JOINT SERV EOD DEV (ADV)	2	4,394	6,887	10,898	11,188	U
40	63701N HUMAN FACTORS ENG DEVEL	2	1,170	1,852	2,116	5,032	U
41	63704N ASW OCEANOGRAPHY	2	3,261	3,355	6,376	6,064	U

PAGE N-2

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1987 C E
			FY 1984	FY 1985	FY 1986	FY 1987 C	
42	63706N MEDICAL DEVELOPMENT (ADV)	2	9,872	10,892	14,853	17,839	U
43	63707N MNPWR CONTROL SYST DEV	2	1,771	2,522	4,099	7,063	U
44	63709N ADV MARINE BIOLOGICAL SYS	2	3,893	6,425	5,477	5,748	U
45	63712N GENERIC LOGISTICS R&D	2			8,886	31,168	U
46	63713N OCEAN ENG TECH DEVELOP	2	16,429	16,816	13,083	20,637	U
47	63720N EDUCATION & TRAINING	2	2,196	3,505	4,667	8,848	U
48	63721N ENVIRONMENTAL PROTECTION	2	7,981	8,003	8,347	10,512	U
49	63722N NAVAL SPECIAL WARFARE	2	7,928	7,469	11,862	13,321	U
50	63727N ADV TECH FOR LOGISTIC INFO	2	1,784				U
51	63728N MANUFACTURING TECH	2	49,127				U
52	63732M ADV MANPOWER TRAINING SYS	2	5,465	2,848	6,144	8,509	U
53	63733N TRAINING DEVICE TECH	2	6,411	7,228	8,679	9,460	U
54	63739N NAV LOGISTICS PRODUCTIVITY	2			968	4,380	U
	ADVANCED TECHNOLOGY DEVELOPMENT		226,548	169,673	239,449	328,535	
55	63371N TRIDENT II	3	1,473,233				U
56	63451N SPACE TECHNOLOGY	3			14,002	16,780	U
57	63554N SS( )N	3				1,471	U
58	63568N SSBN SURVIVABILITY	3				2,845	U
59	63735N WWMCCS ARCHITECTURE SUPPT	3	1,004				U
60	63741N SATELLITE LASER COMM	3		2,500			U

PAGE N-3

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
61	64363N TRIDENT II	3		2,049,041	2,165,615	1,719,764 U
62	65856N STRATEGIC TECH SUPPORT	3	7,663	6,013	3,882	4,299 U
63	11221N FBM SYSTEM	3	21,879	29,809	33,550	51,318 U
64	11224N SSBN SECURITY PROGRAM	3	36,671	43,623	38,591	52,393 U
65	11228N TRIDENT I	3	71,194	32,515	47,195	59,180 U
66	11401N ELF COMMUNICATIONS	3	57,292	27,920	26,283	8,716 U
67	11402N NAVY STRATEGIC COMM	3	83,145	101,481	125,639	173,214 U
68	12427N NAV SPASUR	3	726	518	954	1,170 U
69	33131N MEECN	3	1,509	1,470	1,615	1,720 U
70	33152N WIS MODERNIZATION	3	8,391		22,504	17,657 U
	STRATEGIC PROGRAMS		1,762,707	2,294,890	2,482,030	2,112,529
71	63206N ABN ELECTRONIC WARFARE EQ	4	19,953	63,856	61,587	74,221 U
72	63208N T45-TS	4	24,857	67,612	114,128	132,097 U
73	63213N AIRBORNE INFRARED CM	4	10,819			U
74	63214N TAC CMD CONT COMM C/M	4	13,993			U
75	63219N ADV A/C ARMAMENT SYS	4	1,300			U
76	63228N CV ASW MODULE	4	3,832	4,259	5,022	4,608 U
77	83251N A/C SYSTEMS (ADV)	4		5,000	5,894	5,128 U
78	83254N AIR ASW	4	3,882	2,358	6,776	8,208 U
79	83256N JVX	4	86,873	186,425	603,743	487,964 U
80	83257N A-6E IMPROV	4	14,370	69,078	237,952	134,720 U

PAGE N-4

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	THOUSANDS OF DOLLARS	U
81	63259N ACQUIS SEARCH SENSORS (ADV)	4	1,900	1,875				U
82	63260N ABN MINE COUNTERMEASURES	4	14,832	15,622	14,148		18,525	U
83	63261N TAC AIR RECON	4	7,495	9,950	6,906		19,407	U
84	63262N A/C SURVIV & VULNER	4	10,697	20,332	14,825		19,612	U
85	63267N COMBAT IDENT SYS	4	6,857					U
86	63313N MAVERICK	4	6,938	1,962				U
87	63315N RETRACT YELLOW	4	8,350	12,356	25,728		69,396	U
88	63318N ADV SURF/AIR MSSL (ASAM)	4	3,924	7,347	41,510		81,205	U
89	63320N LOW COST ANTI-RADIATION SEEKER	4		29,941	18,523		17,657	U
90	63367N SUBMARINE ASW STD OFF WPN	4	27,381	51,260	75,328		113,657	U
91	63382N BGAAC	4	6,336	10,151	11,183		13,986	U
92	63502N SURFACE MCM	4	29,937	28,927	24,908		39,834	U
93	63504N SUB SONAR DEVEL (ADV)	4	8,117	21,097	22,414		39,463	U
94	63506N SURFACE SHIP TORP DEF	4	11,698	27,451	45,198		74,027	U
95	63509N SHPBD INFO TRANSFER SYS	4	2,276	4,386			5,830	U
96	63512N CATAPULTS	4	1,274		3,418		10,601	U
97	63513N SHIPBD SYS COMP DEV	4	12,483	15,343	21,427		26,793	U
98	63514N SHIPBOARD DAMAGE CONTROL	4	17,575	18,163	32,320		50,471	U
99	63515N ADV IDENTIFICATION TECH	4	2,212					U
100	63516N RADAR SURVEILLANCE EQUIP	4	486					U
101	63519N ADV COMMAND DATA SYS	4	2,496	5,980	2,595		5,329	U

PAGE N-5

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
102	63522N SUB ARCTIC WF/SPT EQUIP PR	4	2,253	10,285	9,748	20,310 U
103	63525N PILOT FISH	4	92,752	119,231	93,964	76,561 U
104	63528N NON ACOUSTIC ASW	4	12,394	22,276	22,104	36,998 U
105	63529N ADV ASW TARGET	4	2,303	15,857	12,646	10,502 U
106	63532N SHIP SYS ENGR STDS	4	4,429	4,801	4,673	4,708 U
107	63536N RETRACT JUNIPER	4		10,636	25,368	26,459 U
108	63539N RETRACT AMBER	4	1,846			U
109	63542N RADIOLOGICAL CONTROL	4		1,663	3,585	3,200 U
110	63550N LINK DOGWOOD	4	5,887	19,687	26,247	U
111	63553N SURFACE ASW	4	6,434	17,642	17,649	43,025 U
112	63560N SUB HULL ARRAY DEV (ADV)	4	15,522	11,529	13,206	25,478 U
113	63561N ADV SUB SYS DEVEL	4	81,363	152,790	180,586	168,663 U
114	63562N SUB TAC W/F SYS (ADV)	4	15,004	20,631	23,171	27,729 U
115	63564N SHIP DEVELOPMENT (ADV)	4	18,314	15,946	14,639	30,037 U
116	63565N SURF SHIP NAVIG SYS	4			2,841	6,791 U
117	63566N AMPHIB ASSLT CRAFT	4	6,291			U
118	63569N ATTACK SUBMARINE DEV	4	10,735	21,947	33,139	42,068 U
119	63570N ADV NUC REACT COMP SYS DEV	4	26,497	70,803	120,175	95,848 U
120	63571N SHIBD PHYSICAL SECURITY	4	5,235	5,109	3,703	5,722 U
121	63576N CHALK EAGLE	4	14,259	51,912	68,783	80,736 U
122	63578N A4W/A1G NUC PROP PLNT	4	12,193	5,705	3,327	5,869 U

PAGE N-8

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

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DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS			FY 1987 C
			FY 1984	FY 1985	FY 1986	
123	63582N COMBAT SYSTEM INTEGRATION	4	14,844	21,516	22,383	24,224 U
124	63589N DDG-51	4	110,224	118,735	100,836	88,798 U
125	63591N JOINT ADV SYS	4	111,853	137,095	132,348	80,053 U
126	63601N MINE DEVELOPMENT	4	3,909	890	1,984	4,815 U
127	63610N ALWT (ADV)	4	4,050		10,113	17,853 U
128	63611M MC ASSAULT VEHICLES	4	62,884	38,871	10,407	11,197 U
129	63634N TAC NUC DEVELOPMENT	4	5,314	7,338	9,721	18,028 U
130	63635M GRD COMBAT/SUPP ARMS SYS	4	5,798	5,181	17,129	21,398 U
131	63702N OCEAN ENGR SYS DEV	4	2,153	2,269	1,380	2,033 U
132	63705N LOGISTICS	4	828	932		U
133	63708N ANTI SUB W/F SIGN PROC	4	4,499	14,167	15,535	19,779 U
134	63711N FLEET TAC D&E PROGRAM	4	5,160	6,201	3,880	9,198 U
135	63717N COMMAND & CONTROL SYS(ADV)	4	28,598	18,801	42,973	67,875 U
136	63719N CONTAINER OFFLOAD & TRNSFR SYS	4	1,744	1,470	1,515	2,927 U
137	63724N NAVY ENERGY PROGRAM (ADV)	4	23,393	20,057	18,576	23,353 U
138	63725N FACILITIES IMPROV	4	4,833	8,989	7,279	10,643 U
139	63726N MERSHIP NAV AUX PROG	4	4,716	5,947	6,031	6,939 U
140	63729M COMBAT SERVICES SUP (ADV)	4	7,233	4,678	9,356	15,517 U
141	63730M MC INTELL/ELEC WARFARE SYS	4	2,921	8,231	70	387 U
142	63734N CHALK CORAL	4	6,683	5,392	3,039	U
143	63736N STRIKE WARFARE	4	1,398	589		U

PAGE N-7

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO NUMBER	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
144 63737N	LINK HAZEL	4	37,730	45,500	23,564	40,218 U
145 63740N	LINK LAUREL	4		30,000	35,345	7,357 U
146 63743N	ARIADNE	4			2,185	9,834 U
147 63744N	LINK SPRUCE	4		8,500	67,352	127,521 U
148 63746N	RETRACT MAPLE	4		5,600	8,247	18,147 U
149 63763N	NCCS SE&I	4	11,803	10,325	7,181	8,026 U
150 63784N	ASW SURVEILLANCE	4	3,000	8,538	19,458	25,521 U
151 63785N	LRAP	4	9,153	10,538	15,678	18,915 U
152 63787N	SPECIAL PROCESSES	4	58,488	69,519	49,532	42,189 U
153 63788N	RDSS	4	16,197	10,648	15,380	20,822 U
154 64203N	AVIONICS DEV	4	8,409	11,337	14,985	22,346 U
155 64211N	IFF SYS DEV	4	8,435	12,003	17,477	14,767 U
156 64212N	LAMPS III	4	7,102	14,473	16,006	12,029 U
157 64213N	HELICOPTER DEVELOPMENT	4	32,489	13,324	7,902	13,357 U
158 64214N	AV8B (ENG)	4	104,046	71,545	72,078	54,070 U
159 64215N	SUPPORT EQUIPMENT	4	6,548	12,583	16,428	40,048 U
160 64217N	S-3 WPN SYS IMP S-3( )	4	59,032	33,205	15,955	12,191 U
161 64218N	AIR OCEAN EQUIP ENG	4	1,345	2,498	2,468	2,551 U
162 64219N	ABN ASW DEVELOPMENTS	4	19,025	19,408	6,136	2,326 U
163 64220N	A/C IR SIGN SUPPRESSION	4	1,391	5,555	3,945	1,389 U
164 64221N	P-3 MODERNIZATION PROG	4	8,971	29,814	48,725	79,003 U

PAGE N-8

UNCLASSIFIED



## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				E
			FY 1984	FY 1985	FY 1986	FY 1987 C	
165	64224N ABN EW ENG	4	3,336	42,089	62,298	77,358	U
166	64225N ADV RADAR WARNING	4	7,588				U
167	64226N ASPJ	4	42,698	40,280	24,985	17,592	U
168	64228N SH-60 CV VARIANT	4	18,373				U
169	64229N CV 12 ASW HELO	4		20,080	12,722	2,802	U
170	64252N A/C PROPULSION (ENG)	4	9,213	25,856	44,866	25,143	U
171	64255N EW SIMULATOR DEV	4	16,055	20,932	40,275	55,509	U
172	64260N C/MH-53E	4	28,779	13,102	2,300	1,609	U
173	64261N ACOUSTIC SRCH SENSRS (ENG)	4	22,476	25,426	42,630	64,159	U
174	64264N AVIATION LIFE SUPT SYS	4	9,687	11,799	32,809	33,849	U
175	64267N AWG-9 UPDATE	4	2,481				U
176	64268N A/C ENGINES COMP IMP PROG	4	83,235	81,595	65,843	98,959	U
177	64301N MK92 FCS UPGRADE	4	72,593	15,100	13,326	4,939	U
178	64303N AEGIS AREA AIR DEF	4	12,308	13,565	11,081	12,629	U
179	64307N CG-47 PRODUCT IMPROVEMENT	4	53,658	44,754	48,506	44,618	U
180	64308N LINK ASH	4	7,729	19,579	13,636	6,589	U
181	64314N AMRAAM	4	6,073	16,627	17,051	34,487	U
182	64352N S/L WPNRY SHIP SYSTEMS	4	1,384	1,387		1,488	U
183	64353N VERTICAL LAUNCHING SYS	4	44,899	43,478	29,566	38,241	U
184	64354N AAM SYSTEMS ENGINEERING	4	3,071		13,589	30,497	U
185	64355N VLS ASROC	4	30,845	26,688	37,444	38,096	U

PAGE N-9

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
186	64358N CIWS (PHALANX)	4	1,230	2,848	7,812	9,622 U
187	64361N NATO SEA SPARROW	4	4,648	8,232	8,047	8,148 U
188	64365N SM-2 (N)	4	17,107		9,756	23,886 U
189	64366N STANDARD MSL IMPROVEMENTS	4	31,393	40,693	47,185	54,202 U
190	64367N TOMAHAWK	4	128,644	74,421	68,798	87,339 U
191	64369N 5" ROLLING AIR FRAME MSLE	4	7,879	4,912	10,948	1,963 U
192	64370N SSN-688 VLS	4	53,876	29,276	25,699	15,319 U
193	64371N HELLFIRE	4	2,706	2,392		U
194	64372N NEW THREAT UPGRADE	4	47,503	49,998	54,034	59,878 U
195	64502N SUBMARINE COMM	4	4,801	4,107	4,426	5,616 U
196	64503N SUB SONAR DEVELOP (ENG)	4	56,489	39,751	40,299	59,785 U
197	64504N AIR CONTROL ENG	4	26,877	20,803	20,335	20,870 U
198	64506N BR/CW COUNTERMEASURES	4	7,610	7,071	6,079	8,839 U
199	64507N EMSP	4	31,669	61,587	99,277	115,520 U
200	64508N RADAR SURVEILLANCE EQUIP	4	8,640	11,645	8,330	8,281 U
201	64509N ADV TACT RAD	4			2,909	17,166 U
202	64510N COMMUNICATIONS SYS	4	4,538	5,001		U
203	64511N INTELLIGENCE SYSTEMS	4	1,522	1,064	901	715 U
204	64515N SUB SURV EQUIP PROG (ENG)	4	4,690	7,349	19,429	37,079 U
205	64516N SHIP SURVIVABILITY	4	4,479	6,228	5,904	9,072 U
206	64518N CIC CONVERSION	4	24,439	30,373	29,204	28,572 U

PAGE N-10

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT ---	FY 1984 -----	FY 1985 -----	FY 1986 -----	FY 1987 C -----	THOUSANDS OF DOLLARS	
207	64520N SUB HULL ARRAY DEV (ENG)	4		14,500	25,974	52,100	U	
208	64524N SUBACS (ENG)	4	92,795	169,047	205,205	292,022	U	
209	64554N SURFACE E/W	4	5,141				U	
210	64561N SUBMARINE (ENG)	4	1,921				U	
211	64562N SUB TAC W/F SYSTS (ENG)	4	46,945	41,529	49,798	61,023	U	
212	64563N SHPBD PHYS SECURITY (ENG)	4	2,436	2,336	4,617	5,275	U	
213	64567N SHIP SUBSYS DEV/LBTS	4	79,583	87,592	89,418	102,720	U	
214	64569N NATO SEA GNAT	4	3,924	1,792	2,284		U	
215	64573N SHPBD EW IMPROV	4	12,386	44,535	63,776	83,504	U	
216	64574N TACT EMBEDDED COMP PROG	4	16,864	9,429	19,169	28,054	U	
217	64575N AN/SQS-53C	4	47,944	50,233	37,713	19,374	U	
218	64578N LINK BIRCH	4	5,169	7,456	4,078	196	U	
219	64601N MINE DEVEL (ENG)	4	13,772	13,747	9,367	16,274	U	
220	64602N NAVAL GUNNERY IMPROVEMENT	4	5,109	4,617	15,870	21,920	U	
221	64603N UNGUIDED CONVENT A/L WPNS	4	14,356	4,170	4,678	3,911	U	
222	64604N C/W WEAPONS	4	9,469	2,122			U	
223	64608N SAL GP/EO SENS DEVEL	4	30,447	39,708	48,717	26,724	U	
224	64609N BOMB-FUZE IMPR	4	505	6,304	5,672	4,634	U	
225	64610N MK 50 TORP (ALWT)	4	139,389	146,343	156,290	152,072	U	
226	64654N JOINT SERV EOD DEV (ENG)	4	3,174	4,012	4,405	4,915	U	
227	64656M MC ASSAULT VEHICLES	4		11,619	45,653	63,273	U	

PAGE N-11

UNCLASSIFIED

UNCLASSIFIED  
DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1987 C
			FY 1984	FY 1985	FY 1986	FY 1987 C	
228	64657M GRD COMBAT/SUP ARMS SYS	4	11,843	2,928	8,686	13,493	U
229	64675N MK 48 ADCAP (ENG)	4	173,224	126,623	63,470	34,906	U
230	64704N ASW OCEANOGRAPHIC EQUIP	4			506	1,333	U
231	64705N CHALK BANYAN	4	5,000	5,000	5,826	5,801	U
232	64710N NAVY ENERGY PROGRAM (ENG)	4	21,906	11,185	9,799	12,755	U
233	64711N COMMAND & CONTROL SYS(ENG)	4	19,384	54,790	66,173	58,936	U
234	64713N TACTAS (AN-SQR-19)	4	3,589		16,200	40,512	U
235	64714N AIR W/F TRAINING DEV	4	10,985	3,098			U
236	64715N SURFACE W/F TRAINING DEV	4	24,494	26,817	25,821	32,813	U
237	64716N SUBMARINE W/F TRAINING DEV	4	577	483			U
238	64717M COMBAT SERVICES SUPP	4	4,067	3,361	3,638	4,641	U
239	64718M INTELL/ELECT W/F SYS	4	3,330	5,647	14,159	9,252	U
240	64719M COMMAND/CONT/COMM SYS	4	19,151	27,450	18,906	22,638	U
241	64720M TAC AIR OPER CENTRAL 85	4	7,480	5,356			U
242	64725N REGIONAL TACTICAL SURV	4	27,807	31,723	56,225	35,568	U
243	64761N INTELLIGENCE (ENG)	4	12,086	9,808	12,421	7,287	U
244	64771N MEDICAL DEV (ENG)	4	1,814	2,387	1,380	3,349	U
245	64779N JINTACCS	4	7,832	3,912	5,622	4,471	U
246	64780M JINTACCS MC	4	6,182	5,229	2,945	3,531	U
247	64789N SURV TOWED ARRAY SENSOR	4				3,242	U
248	65155N FLT TACT D&E	4	16,521	14,718	17,197	19,662	U

PAGE N-12

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987	U
249	65803N EMI AND SPECTRUM CONTROL	4	3,797	4,113	3,870	4,461	U
250	65853N MANAG & TECH SUPPORT	4	9,850	11,331	11,063	16,012	U
251	65867N C2 SURV/RECONN SPT	4	3,644	4,799	3,979	5,047	U
252	65871M MC TAC EXPLOIT NAT CAP	4	437	427	415	651	U
253	24134N A6 SQUADRONS	4	8,515	21,741	19,205	4,077	U
254	24136N F/A-18 SQUADRONS	4	19,794	29,914	58,314	92,629	U
255	24152N EARLY WARNING ACFT SQDNS	4	50,328	37,429	23,666	35,438	U
256	24161N AVIATION SUPPORT CVW	4	8,814	2,978	1,785	7,322	U
257	24163N FLT TELECOM (TAC)	4	31,552	50,249	72,697	96,094	U
258	24243N LAMPS	4				12,573	U
259	24281N SUBMARINES	4	7,300	5,399	3,756	2,202	U
260	24304N MINES & MINE SUPPORT	4	15				U
261	24311N UNDERSEAS SURVEILLANCE SYS	4	48,241	27,819	25,217	32,985	U
262	24313N SURTASS	4	478	3,743	2,186	5,468	U
263	24571N SPECIAL PROJECTS	4	18,627	18,683	20,513	8,773	U
264	24573N NAVY COVER & DECEPT PROG	4	16,249	24,904	25,564	30,058	U
265	24575N ELECTRONIC WARFARE SPT	4	6,982	11,035	9,573	6,082	U
266	24576N COUNTER C3 DEV	4	10,271	27,823	22,563	33,521	U
267	25601N HARM IMPROVEMENT	4	8,497	4,252	2,636	2,637	U
268	25604N JTIDS	4	109,718	141,690	184,646	194,459	U
269	25620N ASW COMBAT SYS INTEG	4	15,446	11,960	12,271	28,702	U

PAGE N-13

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
270	25623N SURF SHP SONAR MODRNIZATN	4	3,359			U
271	25633N ACFT EQ REL/MAINT PROG	4	7,027	7,596	7,852	13,789 U
272	25634N SUBMARINE SILENCING	4	15,763	29,298	31,638	32,068 U
273	25645N MODULAR GUIDED WPN IMPR	4	3,704		7,882	3,433 U
274	25658N LAB FLEET SUPPORT	4	5,682	6,364	6,158	7,760 U
275	25662N A/C PROPULSION EVAL GEN	4	2,755			U
276	25687N F-14 D	4	40,640	277,149	348,065	252,485 U
277	25670N TACTICAL INTELL PROC SUP	4	1,910	2,033	1,456	2,197 U
278	25674N EW COUNTER RESPONSE	4	23,394	35,818	80,168	50,299 U
279	25675N OPERATIONAL REACTOR DEV	4	17,789	12,791	12,719	14,888 U
280	26313M MARINE CORPS TELECOM	4	4,589	4,830	3,587	9,190 U
281	26623M GRD COMBAT/SUP ARMS SYS	4	14,364	25,818	43,600	45,509 U
282	26624M COMBAT SERVICES SUP	4	1,040	2,253	1,449	2,250 U
283	26625M INTELL/ELECT WARFARE SYS	4	1,409	576	1,163	11,141 U
284	26626M COMMAND/CONT/COMM SYS	4	14,464	24,984	39,064	53,908 U
285	26627M M/C TECH SUPT C/C SYS	4	2,554	3,077	4,094	4,406 U
286	28010M TRI-TAC-MC	4	14,486	17,371	11,939	9,050 U

THOUSANDS OF DOLLARS

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PAGE N-14

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
287	28010N TRI-TAC-NAVY	4	4,952	3,892		U
	TACTICAL PROGRAMS		3,916,867	4,875,230	6,160,962	6,678,427
288	63518N ADV NAVIG DEVELOPMENT	5	480	687	1,941	975 U
289	64514N NAVIGATION SYSTEMS	5	2,342	670	920	3,052 U
290	64577N EHF SATCOM	5	64,004	73,619	45,437	27,104 U
291	64777N NAVSTAR OPS	5	59,879	62,824	70,079	92,864 U
292	65866N C2 SYSTS PLAN/ENG SUPP	5	4,167	5,820	5,466	5,818 U
293	31303N FIELD OPER INTELL OFFICE	5				
294	31326N PRAIRIE SCHOONER	5				
295	31327N TECH RECONN AND SURV	5				
296	33109N SATELLITE COMMUNICATIONS	5	8,564	11,305	17,973	14,982 U
297	33126N LONG HAUL COMM(DCS)	5	1,153			U
298	33401N COMSEC	5				
299	33503N MILSTAR JOINT PROJ OFFICE	5			4,418	4,414 U
300	34111N SPECIAL ACTIVITIES	5				
	INTELLIGENCE AND COMMUNICATIONS		345,400	423,109	704,007	756,984
301	64208N RANGE INST & SYS DEV	6	9,403	8,988	8,382	9,867 U
302	64258N TARGET SYSTEMS DEV	6	56,003	61,444	109,012	141,843 U
303	64703N TRNG & PERS SYS DEV	6	3,994	4,629	3,086	3,575 U
304	65151M STUDIES & ANAL SUP/MC	6	852	1,832	1,785	1,843 U

PAGE N-15

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1987 C E
			FY 1984	FY 1985	FY 1986		
305	65152N STUDIES & ANAL SUP/NAVY	6	5,936	6,282	3,977	4,298	U
306	65153M MCOAG	6	2,865	2,960	3,714	4,138	U
307	65154N CENTER FOR NAVAL ANAL/NAVY	6	10,672	15,425	21,813	22,916	U
308	65156M MC OPERATIONAL T&E	6	1,009	2,618	2,317	2,093	U
309	65502N SML BUSINESS INNOVATN RES	6	12,297	25,200			U
310	65804N TECH INFO SERVICES	6	1,772	2,173	2,744	3,086	U
311	65852N AUTECH	6	45,043	43,197	51,914	53,901	U
312	65854M DEVELOPMENT CENTER SUPPORT	6	2,495	3,946	3,958	4,254	U
313	65857N INTERNATIONAL RDT&E	6	1,637	1,766	2,436	2,620	U
314	65859N MOBILE SEA RANGE	6	2,642	5,644	5,268	10,150	U
315	65861N RDT&E LAB & FAC MGMT SPT	6	95,439	56,748	66,278	73,134	U
316	65862N RDT&E INSTRUM & MATL SPT	6	23,216	18,832	20,321	22,780	U
317	65863N RDT&E SHIP & AIRCRAFT SPT	6	61,370	78,635	84,293	93,256	U
318	65864N TEST AND EVAL SPT	6	264,605	287,861	294,480	312,997	U
319	65865N OT&E CAPABILITY	6	5,539	6,738	6,503	6,929	U
320	65872N PRODUCTIVITY IMPROVEMENT	6	4,055		2,855	1,719	U
321	35111N WEATHER SERVICE	6	1,052	1,402	1,146	1,192	U
322	35160N DEF METEOROLOG SATELL PROG	6	507	21,485	55,975	60,253	U

PAGE N-16

UNCLASSIFIED



UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
						THOUSANDS OF DOLLARS
323	78011N MANUFACTURING TECH	6		50,495	72,426	90,049 U
	DEFENSEWIDE MISSION SUPPORT		612,403	728,298	824,683	926,893
TOTAL	RESEARCH DEVELOPMENT TEST + EVAL, NAVY		7,629,418	9,274,106	11,264,300	11,808,351

PAGE N-17

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

## SUMMARY

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

	FY 1984	FY 1985	FY 1986	FY 1987
<b>SUMMARY RECAP OF RESEARCH CATEGORIES</b>				
RESEARCH	192,145	203,571	230,028	272,654
EXPLORATORY DEVELOPMENT	545,754	544,984	595,185	689,477
ADVANCED DEVELOPMENT	1,355,049	2,140,821	3,249,742	4,135,653
ENGINEERING DEVELOPMENT	5,875,305	5,445,313	4,734,313	4,430,501
MANAGEMENT AND SUPPORT	834,680	843,290	926,922	1,035,925
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	8,802,933	9,177,979	9,736,190	10,544,210
OPERATIONAL SYSTEMS DEVELOPMENT	3,472,273	4,328,268	5,842,310	6,028,884
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, AF	12,275,206	13,506,247	15,578,500	16,573,094
<b>SUMMARY RECAP OF BUDGET ACTIVITIES</b>				
TECHNOLOGY BASE	737,899	748,555	825,213	942,131
ADVANCED TECHNOLOGY DEVELOPMENT	446,369	516,410	713,971	856,951
STRATEGIC PROGRAMS	5,514,054	5,766,039	5,743,785	6,283,962
TACTICAL PROGRAMS	2,284,626	2,729,466	3,792,137	3,990,048
INTELLIGENCE AND COMMUNICATIONS	1,594,831	1,848,626	2,382,832	2,324,534
DEFENSEWIDE MISSION SUPPORT	1,697,427	1,897,151	2,120,562	2,173,468
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, AF	12,275,206	13,506,247	15,578,500	16,573,094
<b>SUMMARY RECAP OF FYDP PROGRAMS</b>				
STRATEGIC FORCES	418,417	370,498	726,076	666,117
GENERAL PURPOSE FORCES	635,563	872,537	1,228,162	1,252,461
INTELLIGENCE AND COMMUNICATIONS	2,328,093	2,969,002	3,672,745	3,896,382
AIRLIFT/SEALIFT	20,639	32,116	69,598	42,957
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	8,802,933	9,177,979	9,736,190	10,544,210
CENTRAL SUPPLY AND MAINTENANCE	63,858	70,865	136,361	159,559
TRAINING MEDICAL AND OTHER	2,846	5,208	5,300	6,895
ADMINISTRATION AND ASSOC ACTIVITIES	2,857	5,200	1,174	1,469
SUPPORT OF OTHER NATIONS	2,857	2,842	2,894	3,044
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, AF	12,275,206	13,506,247	15,578,500	16,573,094

PAGE F-1

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
1	61101F IN-HOUSE LAB INDEPENDENT RESEARCH	1	13,089	15,000	17,444	21,167 U
2	61102F DEFENSE RESEARCH SCIENCES	1	179,076	186,571	206,334	238,987 U
3	61103F UNIVERSITY RESEARCH	1			6,250	12,500 U
4	62101F GEOPHYSICS	1	41,347	37,086	38,614	42,481 U
5	62102F MATERIALS	1	47,544	48,900	54,769	61,865 U
6	62201F AEROSPACE FLIGHT DYNAMICS	1	61,952	64,193	67,545	74,909 U
7	62202F AEROSPACE BIOTECHNOLOGY	1	42,954	45,000	50,840	57,262 U
8	62203F AEROSPACE PROPULSION	1	56,216	58,088	62,609	70,797 U
9	62204F AEROSPACE AVIONICS/VHSI CIRCUITS	1	70,188	72,510	74,806	83,342 U
10	62205F TRAINING/SIMULATION TECH	1	22,632	23,040	25,236	28,730 U
11	62206F CIVIL ENGINEERING & ENVIRONMENTAL QA	1			7,125	8,278 U
12	62302F ROCKET PROPULSION	1	35,400	34,500	41,661	47,228 U
13	62601F ADVANCED WEAPONS	1	48,354	36,894	37,020	43,352 U
14	62602F CONVENTIONAL MUNITIONS	1	39,408	42,820	44,819	50,490 U
15	62702F COMMAND/CONTROL/COMMUNICATION	1	72,679	73,124	80,720	90,200 U
16	62703F PERS UTILIZATION TECH	1	7,080	7,829	9,421	10,543 U
	TECHNOLOGY BASE		737,899	748,555	825,213	942,131
17	63106F LOGISTICS RESEARCH & DEV RQMTS	2	2,985	5,248	12,736	21,859 U
18	63107F AUTOMATION OF TECHNICAL INFORMATION	2			5,382	4,993 U
19	63202F ACFT PROPULSION SUBSYS INTEGRATION	2	24,725	26,819	27,493	35,489 U
20	63203F ADV AVIONICS FOR ACFT	2	21,800	20,000	22,651	31,205 U

PAGE F-1-a

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
21	63205F FLT VEHICLE TECHNOLOGY	2	13,000	15,617	22,884	27,419 U
22	63206F RECON SENSORS/PROCESSING TECHNOLOGY	2	4,975	8,323	9,182	10,861 U
23	63211F AEROSPACE STRUCTURES/MATERIALS	2	22,849	10,938	23,596	37,143 U
24	63215F AVIATION TURBINE FUEL TECHNOLOGY	2	4,402	3,289	4,671	10,556 U
25	63216F ADV TURBINE ENGINE GAS GENERATOR	2	24,532	25,302	29,656	33,713 U
26	63217F WEAPON SYSTEM POWER	2			1,947	10,398 U
27	63226F DOD COMMON PROG LANGUAGE(ADA)ADV DEV	2	7,762	8,055	7,480	8,995 U
28	63227F ADVANCED SIMULATOR TECHNOLOGY	2	8,238	7,486	4,410	8,094 U
29	63231F CREW SYSTEMS TECHNOLOGY	2	6,886	10,200	12,754	16,147 U
30	63244F ACFT NON-NUCLEAR SURVIVABILITY	2		3,931	3,278	3,508 U
31	63245F ADV FIGHTER TECH INTEGRATION	2	11,664	18,954	22,276	26,026 U
32	63250F LINCOLN LABORATORY	2	23,950	20,750	26,363	26,524 U
33	63253F ADVANCED SYSTEM INTEGRATION DEMO	2	22,903	30,000	36,327	26,382 U
34	63259F CARTOG APPLICATIONS-TAC & STRAT SYS	2		1,094	1,409	1,732 U
35	63302F SPACE & MSL ROCKET PROPULSION	2	1,273	2,000	8,381	17,843 U
36	63313F ADV MSL SUBSYSTEMS DEMONSTRATION	2			1,209	6,195 U
37	63319F ADVANCED TECHNOLOGY CRUISE MISSILE	2		15,417	7,677	8,782 U
38	63363F HYPERVELOCITY MISSILE	2	970		10,763	9,790 U
39	63401F ADVANCED SPACECRAFT TECH	2		6,900	9,700	18,592 U
40	63406F ADV MILITARY SPACEFLIGHT TECHNOLOGY	2			916	8,436 U
41	63410F SPACE SYS ENVIRON INTERACTIONS TECH	2	1,420	3,730	4,954	9,859 U

PAGE F-2

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

PROGRAM  
LINE  
ELEMENT  
NO NUMBER

ITEM NOMENCLATURE

ACT

FY 1984

FY 1985

FY 1986

FY 1987 C

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO NUMBER	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
42	63424F MSL SURVEILLANCE TECH	2		3,000	11,550	15,584 U
43	63452F VERY HIGH SPEED INTEGRATED CIRCUITS	2	120,109	135,000	193,776	158,224 U
44	63453F NUCLEAR SYSTEMS ADV DEV	2				1,469 U
45	63454F NON-DESTRUCTIVE INSPECTION AD DEV	2			980	4,507 U
46	63601F CONVENTIONAL WEAPONS	2	18,100	20,749	28,590	34,431 U
47	63605F ADVANCED RADIATION TECH	2	46,680	5,000	19,749	52,002 U
48	63704F MANPOWER & PERSONNEL SYS TECH	2	796	2,039	2,199	2,407 U
49	63707F WEATHER SYSTEMS	2		2,955	3,963	3,754 U
50	63718F ELECTRONIC WARFARE TECHNOLOGY	2		22,105	29,436	36,901 U
51	63723F CIVIL/ENVIRONMENTAL ENGR TECH	2	6,585	9,100	11,488	17,321 U
52	63726F FIBER OPTICS DEVELOPMENT	2		3,053	3,861	3,885 U
53	63727F ADVANCED COMMUNICATIONS TECHNOLOGY	2		4,838	4,895	4,711 U
54	63728F ADVANCED COMPUTER TECHNOLOGY	2	6,858	6,672	8,843	10,651 U
55	63743F ELECTRO-OPTICAL WARFARE	2	16,214	16,808	15,818	22,802 U
56	63745F CHEMICAL WARFARE DEFENSE	2		3,824	6,165	5,828 U
57	63750F COUNTER/COUNTERMEASURES -ADV DEV	2	8,960	10,444	14,444	17,447 U
58	63751F TRAINING SYSTEMS TECHNOLOGY	2	3,590	5,070	2,324	2,448 U
59	63752F DOD SOFTWARE ENGINEERING INSTITUTE	2		5,000	11,742	14,686 U

PAGE F-3

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	
60	63789F CMD/CNTRL/COMM ADV DEV	2	14,365	16,700	26,273	31,352	U
	ADVANCED TECHNOLOGY DEVELOPMENT		446,369	516,410	713,971	858,951	
61	63258F COMMON STRATEGIC ROTARY LAUNCHER	3	62,850	69,304			U
62	63311F ADVANCED STRATEGIC MISSILE SYSTEMS	3	74,250	98,000	173,934	215,580	U
63	63312F ADVANCED CONCEPTS	3					U
64	63314F STRATEGIC LASER SYSTEMS TECHNOLOGY	3	45,843				U
65	63319F ADVANCED TECHNOLOGY CRUISE MISSILE	3	14,768				U
66	63364F SRAM II	3		24,000	78,958	200,108	U
67	63424F MSL SURVEILLANCE TECH	3	11,128				U
68	63425F ADVANCED WARNING SYSTEMS	3	10,832				U
69	63428F SPACE SURVEILLANCE TECHNOLOGY	3	14,563				U
70	63716F ATMOSPHERIC SURVEILLANCE TECH	3		4,908	4,978	26,728	U
71	63735F WNMCCS ARCHITECTURE	3	10,912	10,968	8,036	4,859	U
72	64221F SPECIAL IMPROVEMENT PROJECTS	3					
73	64226F B-1B	3	737,200	465,000	367,438	136,323	U
74	64233F TANKER TRANSPORT BOMBER TRNG SYS	3				5,615	U
75	64234F COMMON STRATEGIC ROTARY LAUNCHER	3			72,829	24,497	U
76	64312F ICBM MODERNIZATION	3	2,429,888	2,340,766	1,580,824	1,603,370	U
77	64326F STRAT CONV STANDOFF CAPA(SCSC)	3	23,760	24,000	71,787	53,678	U
78	64361F AIR LAUNCHED CRUISE MISSILE	3	35,902	25,039	14,179	15,096	U
79	64406F SPACE DEFENSE SYS	3	202,668	132,959	149,934	80,357	U

PAGE F-4

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
80	64711F SYSTEMS SURVIVABILITY (NUC AFFECTS)	3	11,703	9,055	7,927	11,121 U
81	11113F B-52 SQUADRONS	3	68,723	22,167	16,047	9,982 U
82	11120F ADVANCED CRUISE MISSILE	3				
83	11135F AIRCRAFT SURVIVABILITY ENHANCEMENTS	3				
84	11142F KC-135 SQUADRONS	3	6,714	4,010	968	4,002 U
85	11213F MINUTEMAN SQUADRONS	3	4,907	4,672	31,203	95,030 U
86	11312F PACCS/WWABNCP SYS EC-135 CL V MODS	3	4,455	799	5,163	8,261 U
87	11316F SAC COMMUNICATIONS	3	12,566	3,046	10,625	620 U
88	12310F NCMC - TW/AA SYSTEMS	3	21,213	23,834	57,445	67,857 U
89	12311F NCMC - SPACE DEFENSE SYSTEMS	3	46,964	37,441	72,996	64,932 U
90	12313F BALLISTIC MSL TAC WNG/ATK ASSES SYS	3	1,875	3,214	2,655	3,187 U
91	12323F TW/AA INTERFACE NETWORK	3			1,468	6,952 U
92	12325F JOINT SURVEILLANCE SYSTEM	3	762	1,602	3,069	2,997 U
93	12411F SURVEILL RADAR STATIONS/SITES	3	5,256	3,514	20,215	43,002 U
94	12412F DEW RADAR STATIONS	3	26,822	46,000	40,914	14,650 U
95	12417F CONUS OVER-THE-HORIZON RADAR	3	96,875	60,890	67,457	36,393 U
96	12423F BALLISTIC MSL EARLY WNG SYSTEM	3	12,599	10,016	12,966	18,771 U
97	12424F SPACETRACK	3	4,995	10,214	9,613	14,212 U
98	12431F DEFENSE SUPPORT PROGRAM	3	47,229	63,985	79,592	71,584 U
99	12432F SLBM RADAR WARNING SYSTEMS	3	3,719	12,219	8,235	29,569 U
100	12433F INTEGRATED OPER NUDETS DETECT SYS	3	32,170	34,795	20,538	4,084 U

PAGE F-5

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	
101	12436F CMD CTR PROCESS/DISPLAY SYS	3	2,966	11,661	14,807	23,888	U
102	12822F LEO	3					U
103	32015F NEACP/E-4B CL V MODS	3	20,427	27,057		36,001	U
104	33131F MINIMUM ESSENTIAL EMER COMM NETWORK	3	111,750	111,811	97,199	8,387	U
105	33152F WMMCCS INFORMATION SYSTEM	3			8,100		U
106	33154F WMMCCS INFORMATION SYSTEM - JPMO	3	25,005	32,629	88,721	147,073	U
107	33601F MILSTAR SAT COMM SYS (AF TERMINALS)	3	164,040	123,197	132,095	279,724	U
108	33603F MILSTAR COMM SAT SYSTEM	3	148,409	325,042	345,696	390,199	U
109	35155F THEATER NUC WPN STORAGE&SEC SYS	3	2,153	1,958	1,045		U
110	35158F SATELLITE DATA SYSTEM	3	7,548				U
111	35172F BERNIE	3					
112	35892F SPECIAL ANALYSIS ACTYS	3					
	STRATEGIC PROGRAMS		5,514,054	5,766,039	5,743,785	6,283,962	
113	63230F ADVANCED TACTICAL FIGHTER	4	34,125	94,267	242,852	282,736	U
114	63239F ADV TACTICAL AIR RECONNAISSANCE SYS	4		1,500	20,339	74,619	U
115	63244F ACFT NON-NUCLEAR SURVIVABILITY	4	2,667				U
116	63249F NIGHT ATTACK PROGRAM	4	3,711				U
117	63256F JNT SERVICE ADV VERT LIFT ACFT (JVX)	4		1,086	4,901	5,000	U
118	63307F AIR BASE SURVIVABILITY & RECOVERY	4	3,774	4,426	6,178	7,198	U
119	63320F LOW COST SEEKER	4		3,000	17,613	17,624	U
120	63437F HAVE DJINN	4					



## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				E
			FY 1984	FY 1985	FY 1986	FY 1987 C	
121	63609F ADV ATTACK WEAPONS	4		5,000	19,113	15,947	U
122	63714F DOD PHYSICAL SECURITY EQ-EXTERIOR	4	3,601	1,885	1,010	999	U
123	63718F ELECTRONIC WARFARE TECHNOLOGY	4	20,136				U
124	63728F FIBER OPTICS DEVELOPMENT	4	2,702				U
125	63727F ADVANCED COMMUNICATIONS TECHNOLOGY	4	3,824				U
126	63742F COMBAT IDENTIFICATION TECHNOLOGY	4	13,060	15,376	8,763	2,088	U
127	63745F CHEMICAL WARFARE DEFENSE	4	5,494				U
128	63749F C3CM ADVANCED SYSTEMS	4	990	500	3,463	8,681	U
129	63770F JT SURV.TGT ATK RADAR SYS(JSTARS)	4		3,318	3,200		U
130	63801F SPECIAL PROGRAMS	4					
131	64201F ACFT AVIONICS EQUIPMENT DEVELOPMENT	4	18,385	19,979	29,397	29,373	U
132	64209F F-100 DURABILITY	4	35,200	14,003	2,899		U
133	64212F AIRCRAFT EQUIPMENT DEV	4	5,811	6,000	8,779	17,110	U
134	64218F ENGINE MODEL DERIVATIVE PROG	4	57,853	82,698	122,854	98,009	U
135	64219F INTEGRATED DIGITAL AVIONICS	4			11,763	19,598	U
136	64220F EW COUNTER RESPONSE	4	27,462	14,000	37,193	28,632	U
137	64222F NUCLEAR WEAPONS SUPPORT	4	1,912	1,947	2,035	2,076	U
138	64223F ALTERNATE FIGHTER ENGINE	4	91,965	54,943	33,353	178,723	U
139	64231F C-17 PROGRAM	4	25,705	123,285	453,681	624,798	U
140	64232F PAVE RUNNER	4					
141	64236F INFRARED SEARCH & TRACK SYS	4			23,657	35,377	U

UNCLASSIFIED

PAGE F-7

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
142	64247F MODULAR AUTOMATIC TEST EQUIPMENT	4	15,765	11,851	9,962	33,556 U
143	64249F NIGHT PRECISION ATTACK	4	58,092	98,338	40,849	44,657 U
144	64268F ACFT ENGINE COMPONENT IMPROVE PROG	4	125,280	148,115	138,574	133,994 U
145	64313F T-46A	4	122,174	77,977	54,287	11,348 U
146	64314F ADV MED RANGE AIR-TO-AIR MSL	4	190,652	209,749	101,382	1,070 U
147	64315F ADVANCED SRAAM	4				392 U
148	64321F JOINT TACTICAL FUSION PROGRAM	4	5,659	17,787	26,920	25,196 U
149	64324F JOINT TACTICAL MISSILE SYSTEM	4	9,491			U
150	64362F GRD LAUNCHED CRUISE MSL	4	36,067	18,654	885	490 U
151	64601F C/B DEFENSE EQUIPMENT	4	20,092	18,221	22,488	34,795 U
152	64602F ARMAMENT ORDNANCE DEVELOPMENT	4	18,424	18,764	17,563	24,339 U
153	64604F SUBMUNITIONS	4		36,322	43,910	13,217 U
154	64607F WIDE-AREA ANTI-ARMOR MUNITION	4	23,170	19,927	15,811	35,541 U
155	64608F CLOSE AIR SUPPORT WEAPONS SYSTEM	4	1,500			U
156	64617F AIR BASE SURVIVABILITY & RECOVERY	4	7,567	11,592	21,900	26,751 U
157	64703F AEROMEDICAL SYSTEMS DEVELOPMENT	4	3,774	7,007	8,049	14,083 U
158	64706F LIFE SUPPORT SYSTEM	4	12,980	13,573	16,779	22,685 U
159	64708F OTHER OPERATIONAL EQUIPMENT	4	11,576	21,835	17,087	18,934 U
160	64710F RECONNAISSANCE EQUIPMENT	4	10,901	8,780	7,820	13,748 U
161	64715F DOD PHYSICAL SECURITY EQ-EXTERIOR	4	14,851	17,562	15,733	19,581 U
162	64724F TAC C3 COUNTER-MEASURES	4	27,554	23,800	17,441	26,496 U

PAGE F-8

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

PROGRAM ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				U
			FY 1984	FY 1985	FY 1986	FY 1987 C	
163	64725F COMBAT IDENTIFICATION SYSTEMS	4	23,485	16,046	13,164	30,225	U
164	64733F SURFACE DEF SUPPRESSION	4	9,405	17,000	54,980	50,521	U
165	64737F AIRBORNE SELF-PROTECTION JAMMER	4	41,679	25,000	11,220	1,033	U
166	64738F PROTECTIVE SYSTEMS	4	50,343	45,565	65,792	83,814	U
167	64739F TACTICAL PROTECTIVE SYSTEMS	4	34,574	39,000	75,709	96,007	U
168	64740F COMPUTER RESOURCES MGT TECH	4	6,197	9,358	14,011	14,408	U
169	64742F PRECISION LOCATION STRIKE SYSTEM	4	72,927	79,096	63,081	27,365	U
170	64750F INTELLIGENCE EQUIPMENT	4	14,195	15,255	13,481	16,576	U
171	64753F COMBAT HELICOPTER MODERNIZATION	4	35,672	34,306	14,100	8,500	U
172	64754F JT TAC INFO DIST SYS	4	45,540	86,511	91,675	60,334	U
173	64756F SIDE LOOKING AIRBORNE RADAR (SLAR)	4	26,939	24,547	20,667	11,992	U
174	64770F JSTARS	4	40,991	48,682	260,221	210,075	U
175	64779F JT INTEROPERABILITY TAC CMD/CNTRL	4	5,940	13,452	9,141	10,017	U
176	11133F SR-71 SQUADRONS	4					
177	27129F F-111 SQUADRONS	4	74,245	60,000	54,535	47,788	U
178	27130F F-15 SQUADRONS	4	110,005	189,592	252,142	110,305	U
179	27131F A-10 SQUADRONS	4	3,639	3,108	3,102		U
180	27132F FIGHTER DERIVATIVE	4	17,415				U
181	27133F F-16 SQUADRONS	4	98,637	94,628	94,659	214,114	U
182	27136F F-40 WILD WEASEL SQUADRONS	4	37,070	55,267	36,707	12,600	U
183	27137F CONSTANT HELP	4					

PAGE F-9

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	
			THOUSANDS OF DOLLARS				
184	27162F TACTICAL AGM MISSILES	4	2,965	2,000	3,926	3,924	U
185	27163F ADV MED RANGE A/A MSL (PROCUREMENT)	4				18,160	U
186	27215F TR-1 SQUADRONS	4				6,166	U
187	27247F AIR FORCE TENCAP	4	271	250	250	307	U
188	27411F OVERSEAS AIR WEAPON CONT SYS	4	3,280	3,154	3,068	1,299	U
189	27412F TACTICAL AIR CONTROL SYSTEM	4	8,553	24,339	20,075	18,523	U
190	27417F AIR BORNE WARNING & CONTROL SYS	4	75,350	74,522	137,302	110,894	U
191	27419F TACTICAL AIRBORNE CMD & CONTROL SYS	4			8,151		U
192	27423F ADV COMM SYS	4	38,417	86,805	123,785	128,235	U
193	27431F TAC AIR INTELL SYS ACTYS	4	1,439	579	2,191	2,778	U
194	27436F TACTICAL RECON IMAGERY EXPLOITATION	4		1,156	7,691	745	U
195	27584F SEEK AXLE	4					
196	27585F SEEK SPINNER	4	38,274				
197	27591F OMEGA	4					
198	27595F BASE COMM - TACTICAL AIR FORCES	4	476	985	899	884	U
199	28010F JT TACTICAL COMM PROG (TRI-TAC)	4	20,573	10,000	4,947	4,338	U
200	28041F JOINT ADVANCED SYTEMS	4					
201	28042F HAVE FLAG	4					
202	33605F SATELLITE COMMUNICATIONS TERMINALS	4		2,860	7,569	2,937	U

PAGE F-10

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	THOUSANDS OF DOLLARS
203	35887F ELECTRONIC COMBAT INTEL SPT	4	1,822	1,928	1,593	1,812	U
204	41115F C-130 AIRLIFT SQUADRONS (IF)	4		789			U
205	41118F C-141 AIRLIFT SQUADRONS (IF)	4	3,118				U
206	41119F C-5 AIRLIFT SQUADRONS (IF)	4	3,894				U
207	41129F THEME CASTLE	4					
208	41840F MAC COMMAND/CONTROL SYS	4	3,227	3,413	11,441	8,042	U
209	44011F SPECIAL OPERATIONS FORCES	4			13,993	20,756	U
	TACTICAL PROGRAMS		2,284,626	2,729,466	3,792,137	3,990,048	
210	63431F SPACE COMMUNICATIONS	5	38,525	42,390	45,012	44,450	U
211	64238F CONSTANT PISCES	5					
212	64778F NAVSTAR GPS USER EQUIPMENT	5	91,447	57,617			U
213	27582F HAVE TRUMP	5					
214	31305F INTELLIGENCE PRODUCTION ACTIVITIES	5					
215	31310F FOREIGN TECHNOLOGY DIVISON	5					
216	31314F INFRARED PROCESSING + EXPLOITATION	5					
217	31315F MISSILE AND SPACE TECH COLLECTION	5					
218	31317F SENIOR YEAR OPERATIONS	5					
219	31324F FOREST GREEN	5					
220	31357F INTEG OPERATIONAL NUDETS DETECT SYS	5					
221	32053F NMCS-WIDE SUPPORT-COMMUNICATIONS	5		3,200			U
222	33110F DEF SATELLITE COMM SYS	5	34,936	31,599	6,930	15,214	U

UNCLASSIFIED

PAGE F-11

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
						THOUSANDS OF DOLLARS
						-----S
						E
223	33112F AIR FORCE COMMUNICATIONS	5			978	1,077 U
224	33126F LONG-HAUL COMMUNICATIONS (DCS)	5	8,323	9,329	11,543	11,716 U
225	33144F ELECTROMAG COMPATIBILITY ANAL CTR	5	7,104	6,864	7,191	7,670 U
226	33401F COMMUNICATIONS SECURITY	5	1,527	1,447		
227	34111F SPECIAL ACTIVITIES	5				
228	35114F TRAFFIC CNTRL/APPROACH/LANDING SYS	5	6,095	10,370	29,517	62,157 U
229	35159F DEFENSE RECON SUPPORT ACTIVITIES	5				
230	35164F NAVSTAR GLOBAL POS SYS (USER EQ)	5	6,709	9,060	28,691	22,710 U
231	35165F NAVSTAR OPS (SPACE/GRD SEGMENTS)	5	25,243	33,464	48,527	24,139 U
232	84733F GEN INTELLIGENCE SKILL TNG	5	2,846	5,208	5,300	6,895 U
	INTELLIGENCE AND COMMUNICATIONS		1,594,631	1,848,626	2,382,832	2,324,534
233	63248F CONCEPT DEVELOPMENT	6	3,995	1,000	3,028	3,114 U
234	63257F ADVANCED CIVIL-MILITARY ACFT	6				1,077 U
235	63401F ADVANCED SPACECRAFT TECH	6	6,283			U
236	63402F SPACE TEST PROGRAM	6	74,355	71,500	70,434	74,816 U
237	63436F SATELLITE SYS SURVIVABILITY	6	29,511	5,519	4,273	5,488 U
238	63707F WEATHER SYSTEMS	6	3,433			U
239	64211F ADV AERIAL TARGETS DEV	6	10,078	3,409	13,505	12,719 U
240	64227F FLIGHT SIMULATOR DEVELOPMENT	6	26,379	139,000	155,315	115,231 U
241	64237F VARIABLE IN-FLT TEST ACFT (VISTA)	6			391	8,812 U
242	64411F SPACE SHUTTLE	6	332,104	337,000	132,007	39,150 U

PAGE F-12

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1985

PROGRAM ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
THOUSANDS OF DOLLARS						
243	64609F LOGISTICS TECH FOR WEAPONS SYSTEMS	6	2,845	7,585	6,750	11,106 U
244	64707F WEATHER SYSTEMS	6	9,313	7,283	13,078	7,590 U
245	64735F RANGE IMPROVEMENT	6	17,716	15,552	62,166	62,634 U
246	64747F ELECTROMAG RADIATION TEST FACIL	6	7,130	6,911	3,376	3,573 U
247	64755F IMPROVED CAPABILITY FOR RDT+E	6	62,700	70,754	46,417	52,964 U
248	65101F PROJECT AIR FORCE	6	17,876	16,766	17,445	18,295 U
249	65304F ACQ/COMD SPT - TELECOM	6	7,945	7,137	6,550	7,087 U
250	65306F RANCH HAND II EPIDEMIOLOGY STUDY	6	5,027	3,308	4,695	7,384 U
251	65502F SMALL BUSINESS INNOVATION DEV	6	20,280			U
252	65708F NAV/RADAR/SLED TRACK TEST SPT	6	53,939	17,649	28,319	29,689 U
253	65806F ACQUISITION AND COMMAND SUPPORT	6	321,728	333,269	366,620	426,532 U
254	65807F TEST AND EVALUATION SPT	6	396,947	412,150	431,594	467,920 U
255	65808F ADV SYS ENGINEERING/PLAN	6	2,663	2,500	3,895	4,344 U
256	65863F RDT&E AIRCRAFT SUPPORT	6		47,511	59,820	64,943 U
257	65872F PRODUCTIVITY INVESTMENTS	6	1,980	3,000	7,009	8,556 U
258	65874F PRODUCT PERFORMANCE AGMT CNTR(PPAC)	6			975	1,175 U
259	65890F AUDIOVISUAL ACTIVITIES - R & D	6	6,295			U
260	35110F SATELLITE CONTROL FACILITY	6	71,725	93,000	63,122	64,331 U
261	35119F SPACE BOOSTERS	6	15,441	15,356	221,393	191,805 U
262	35130F CONSOLIDATED SPACE OPERATIONS CENTER	6	65,173	65,698	87,415	96,093 U
263	35160F DEF METEOROLOGICAL SATELLITE PROG	6	22,971	42,552	71,309	65,790 U

PAGE F-13

UNCLASSIFIED

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
RD T & E PROGRAM  
FY 1986

EXHIBIT R-1

DATE: 04 FEB 1985

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

THOUSANDS OF DOLLARS

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## ITEM NOMENCLATURE

**ACT**

FY 1984

FY 1985

FY 1986

F.Y. 1987 C

264	35171F	SPACE LAUNCH SUPPORT	6	34,880	93,835	79,232	116,978 U
265	71112F	INVENTORY CONTROL POINT OPERATIONS	6		1,000	4,034	5,361 U
266	72207F	DEPOT MAINTENANCE (NON-IF)	6			489	4,895 U
267	78011F	INDUSTRIAL PREPAREDNESS	6	49,005	56,000	104,540	117,847 U
268	78019F	UTAH TESTING + TRAINING RANGE	6	2,207			U
269	78026F	PRODUCT/RELIABLE/AVAIL/MAINTAIN PROG	6	12,646	13,865	17,365	21,512 U
270	78031F	LOGISTICS C3I SYSTEM	6			9,933	9,944 U
271	91212F	SERVICE-WIDE SUPPORT	6			196	490 U
272	91215F	PRODUCTIVITY INVESTMENTS	6			978	979 U
273	92998F	MANAGEMENT HQS-ADP SUPPORT (AF)	6		5,200		U
274	01004F	INTERNATIONAL ACTIVITIES	6	2,857	2,842	2,894	3,044 U
		DEFENSEWIDE MISSION SUPPORT		1,697,427	1,897,151	2,120,562	2,173,468

TOTAL RESEARCH DEVELOPMENT TEST + EVAL, AF

16,573,094

13, 508, 247

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15,578,500

16,573,094

**PAGE F-14**

UNCLASSIFIED



UNCLASSIFIED		EXHIBIT R-1	
DEFENSE AGENCIES		DATE: 04 FEB 1985	
FY 1986 R D T & E PROGRAM		THOUSANDS OF DOLLARS	
SUMMARY		FY 1984	FY 1985
SUMMARY RECAP OF RESEARCH CATEGORIES		FY 1984	FY 1985
RESEARCH			
EXPLORATORY DEVELOPMENT		113,880	82,501
ADVANCED DEVELOPMENT		753,546	746,334
ENGINEERING DEVELOPMENT		360,458	1,617,512
MANAGEMENT AND SUPPORT		7,628	5,981
		101,405	107,629
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)			
OPERATIONAL SYSTEMS DEVELOPMENT		1,326,717	2,559,957
		1,442,703	1,678,370
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES		2,769,420	4,236,327
SUMMARY RECAP OF BUDGET ACTIVITIES			
TECHNOLOGY BASE			
ADVANCED TECHNOLOGY DEVELOPMENT		867,226	828,140
STRATEGIC PROGRAMS		337,184	1,602,744
TACTICAL PROGRAMS		77,701	73,523
INTELLIGENCE AND COMMUNICATIONS		2,080	2,130
DEFENSEWIDE MISSION SUPPORT		1,380,899	1,619,315
		104,580	110,475
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES		2,769,420	4,236,327
SUMMARY RECAP OF FYDP PROGRAMS			
GENERAL PURPOSE FORCES			
INTELLIGENCE AND COMMUNICATIONS		2,080	2,130
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)		1,437,486	1,671,394
CENTRAL SUPPLY AND MAINTENANCE		1,326,717	2,559,957
SUPPORT OF OTHER NATIONS		3,185	1,927
			919
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES		2,769,420	4,236,327
SUMMARY RECAP OF DEFENSE AGENCIES			
DEFENSE MAPPING AGENCY		130,142	
STRATEGIC DEFENSE INITIATIVE ORGANIZATION		50,000	
DEPARTMENT OF DEFENSE (OSD AND OASDS)		47,860	
DEFENSE ADVANCED RESEARCH PROJECTS AGENCY		863,429	
NATIONAL SECURITY AGENCY			
DEFENSE NUCLEAR AGENCY		320,836	
DEFENSE RECONNAISSANCE SUPPORT PROGRAM		318,185	
DEFENSE COMMUNICATIONS AGENCY		103,782	
DEFENSE INTELLIGENCE AGENCY			
DEFENSE LOGISTICS AGENCY		23,580	
UNIFORMED SERVICES UNIVERSITY HEALTH SCIENCES		1,787	
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES		2,769,420	4,236,327

## UNCLASSIFIED

DEFENSE AGENCIES  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
1	61101E DEFENSE RESEARCH SCIENCES	1	111,913	80,700	92,600	97,900 U
2	61101W IN-HOUSE LAB INDEPENDENT RESEARCH	1	1,767	1,801	1,981	2,121 U
3	61103E UNIVERSITY RESEARCH	1			6,250	12,500 U
4	62101E TECHNICAL STUDIES	1	1,200	1,500	1,800	2,000 U
5	62107E THIRD GENERATION DEFENSE TECHNOLOGY	1	6,840			U
6	62301E STRATEGIC TECHNOLOGY	1	207,734	165,750	254,400	315,100 U
7	62702E TACTICAL TECHNOLOGY	1	103,436	107,400	102,000	130,000 U
8	62707E PARTICLE BEAM TECHNOLOGY	1	30,900	17,400	21,500	15,500 U
9	62708E INTEGRATED CMD/CONTROL TECH	1	43,519	53,000	53,000	57,500 U
10	62712E MATERIALS PROCESSING TECH	1	24,634	28,200	33,000	46,000 U
11	62714E NUCLEAR MONITORING	1	14,447	18,500	19,400	20,300 U
12	62715H DEFENSE NUCLEAR AGENCY	1	320,836	353,889	384,361	393,888 U
	TECHNOLOGY BASE		867,226	828,140	970,292	1,092,807
13	63220C SURVEILLANCE, ACQSN, TRACK & KILL ASSESSMENT	2	10,000	545,950	1,386,344	1,874,923 U
14	63221C DIRECTED ENERGY WEAPONS	2	9,500	376,399	965,441	1,195,575 U
15	63222C KINETIC ENERGY WEAPONS	2	10,000	255,950	859,724	1,236,569 U
16	63223C SYSTEMS CONCEPTS AND BATTLE MANAGEMENT	2	10,000	99,000	243,300	272,527 U
17	63224C SURVIVABILITY, LETHALITY & KEY SPT TECHNOLOGY	2	10,000	112,000	258,153	316,701 U
18	63225D JOIN DOD-DOE MUNITIONS TECH DEV	2		4,994	8,413	9,237 U
19	63226E EXP EVAL OF MAJOR INNOVATIVE TECH	2	281,456	193,505	175,249	201,542 U
20	63702D SPECIAL TECHNOLOGY OFFICE/USDR&E	2	4,700	7,941	4,177	4,581 U

PAGE D-1

UNCLASSIFIED

## UNCLASSIFIED

DEFENSE AGENCIES  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
						THOUSANDS OF DOLLARS
21	63703D COUNTER INSURGENCY & SPECIAL TECHNOLOGY	2		4,994	11,421	12,781 U
22	35108K COMMAND AND CONTROL RESEARCH	2	1,528	2,011	2,313	2,799 U
	ADVANCED TECHNOLOGY DEVELOPMENT		337,184	1,602,744	3,914,535	5,129,235
23	63734K ISLAND SUN	3			17,000	35,000 U
24	63735K WMMCCS ARCHITECTURE	3	1,227			U
25	32016K NMCS-WIDE SUPPORT	3	16,028	28,419	43,486	28,752 U
26	32017K WMMCCS ADP-JTSA	3	7,613	1,493		U
27	32019K WMMCCS SYSTEM ENGINEER	3	38,220	29,252	21,254	17,206 U
28	33131K MINIMUM ESSENTIAL EMER COMM NETWORK	3	12,613	14,359	12,398	11,443 U
	STRATEGIC PROGRAMS		77,701	73,523	94,150	92,401
29	21135K CINC C2 INITIATIVES	4	2,050	2,130	2,083	2,169 U
30	26045D C3 INTEROPERABILITY (JOINT TACTICAL C3 AGCY)	4			72,152	77,813 U
31	28298D MANAGEMENT HEADQUARTERS (JTC3A)	4			1,472	1,470 U
	TACTICAL PROGRAMS		2,050	2,130	75,707	81,452
32	62716B MAP/CHART/GEODESY	5		695	975	1,954 U
33	63701B MAP/CHART/GEODESY INV/PROTOTYPE DEV	5	13,575	18,779	20,197	15,767 U
34	64701B MAP/CHART/GEODESY ENGR DEV/TEST	5	7,628	5,981	3,092	2,365 U
35	31011G CRYPTOLOGIC ACTIVITIES	5				
36	31301L GENERAL DEFENSE INTELLIGENCE PROGRAM	5				

UNCLASSIFIED

PAGE D-2

## UNCLASSIFIED

DEFENSE AGENCIES  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS			S E C
			FY 1984	FY 1985	FY 1986	
37	31398L MANAGEMENT HEADQUARTERS GDIP	5				
38	33128K LONG-HAUL COMMUNICATIONS (DCS)	5	19,480	10,181	18,935	20,199 U
39	33127K SUPPORT OF THE NCS	5	3,023	7,974	5,886	5,784 U
40	33401G COMMUNICATIONS SECURITY	5				
41	35139B DMA EXPLOITATION PROGRAM	5				
42	35159B DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES	5	108,939	11,288	9,750	
43	35159G DEF RECONNAISSANCE ACTIVITIES	5				
44	35159I DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES	5	318,186	354,620	268,235	
45	35167G COMPUTER SECURITY	5				
46	35884L INTEL PLAN AND REVIEW ACTYS	5				
47	35885G TACTICAL CRYPTOLOGIC ACTIVITIES	5				
	INTELLIGENCE AND COMMUNICATIONS		1,380,699	1,619,315	1,875,733	1,848,242
48	65104D TECHNICAL SUPPORT TO USDR/E	6	27,470	28,633	23,593	27,942 U
49	65106D GENERAL SUPPORT FOR PA/E	6	1,959	2,198	3,489	5,351 U
50	65107D SUPPORT TO POLICY	6	3,905	5,993	6,445	9,867 U
51	65108D GENERAL SUPPORT FOR NET ASSESSMENT	6	3,621	3,797	4,032	5,463 U
52	65109D GENERAL SUPPORT FOR MRA/L	6	2,350	2,825	3,117	4,433 U
53	65110D CRITICAL TECHNOLOGY	6		2,597	2,792	3,724 U
54	65112D TECHNICAL ANALYTICAL SUPPORT	6			16,001	17,542 U
55	65112E TECHNICAL ANALYTICAL SUPPORT	6		14,700		
56	65113D TAPIOSTRY	6	700	300	2,793	2,940 U

PAGE D-3

UNCLASSIFIED

(6)

## UNCLASSIFIED

DEFENSE AGENCIES  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
57	65114E BLACKLITE	6		4,000	4,000	4,000 U
58	65502E SMALL BUSINESS INNOVATIVE RESEARCH	6	2,000			U
59	65801S DEFENSE TECHNICAL INFO CENTER	6	19,050	17,406	21,656	25,824 U
60	65802S INFORMATION ANALYSIS CENTERS	6	4,500	5,750	6,550	7,050 U
61	65805E TRI-SERVICE NATL LASER TEST RANGE	6	24,000			U
62	65898C MANAGEMENT HEADQUARTERS SDI	6	500	8,000	9,222	10,002 U
63	65898E MGT HQ (RESEARCH/DEVELOPMENT)	6	11,350	11,430	13,148	13,500 U
64	78011S INDUSTRIAL PREPAREDNESS	6		1,927	5,000	6,500 U
65	01015D TECHNOLOGY TRANSFER FUNCTIONS	6	3,155	919	1,645	1,825 U
	DEFENSEWIDE MISSION SUPPORT		104,560	110,475	123,483	145,963
	TOTAL RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES		2,769,420	4,236,327	7,053,900	8,390,100

PAGE D-4

UNCLASSIFIED

UNCLASSIFIED

DEFENSE AGENCIES  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

## SUMMARY

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

	FY 1984	FY 1985	FY 1986	FY 1987
SUMMARY RECAP OF RESEARCH CATEGORIES				
MANAGEMENT AND SUPPORT	49,000	59,000	103,500	107,700
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	49,000	59,000	103,500	107,700
TOTAL DIRECTOR OF TEST + EVALUATION, DEFENSE	49,000	59,000	103,500	107,700
SUMMARY RECAP OF BUDGET ACTIVITIES				
DEFENSEWIDE MISSION SUPPORT	49,000	59,000	103,500	107,700
TOTAL DIRECTOR OF TEST + EVALUATION, DEFENSE	49,000	59,000	103,500	107,700
SUMMARY RECAP OF FYDP PROGRAMS				
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	49,000	59,000	103,500	107,700
TOTAL DIRECTOR OF TEST + EVALUATION, DEFENSE	49,000	59,000	103,500	107,700

PAGE D-5

UNCLASSIFIED

45

UNCLASSIFIED  
DEFENSE AGENCIES  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0450 D DIRECTOR OF TEST + EVALUATION, DEFENSE

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
1	65111D FOREIGN WEAPONS EVALUATION	6	8,064	12,000	17,010	20,330 U
2	65804D TEST AND EVALUATION	6	40,936	47,000	86,490	87,370 U
	DEFENSEWIDE MISSION SUPPORT		49,000	59,000	103,500	107,700

TOTAL DIRECTOR OF TEST + EVALUATION, DEFENSE

			49,000	59,000	103,500	107,700
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PAGE D-6

UNCLASSIFIED

## UNCLASSIFIED

DEFENSE MAPPING AGENCY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST &amp; EVAL DEF AGENCIES

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
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32	62716B MAP/CHART/GEODESY	5		695	975	1,954 U
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33	63701B MAP/CHART/GEODESY INV/PROTOTYPE DEV	5	13,575	16,779	20,197	15,767 U
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34	64701B MAP/CHART/GEODESY ENGR DEV/TEST	5	7,628	5,981	3,092	2,365 U
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41	35139B DMA EXPLOTATION PROGRAM	5				
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42	35159B DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES	5	108,939	11,288	9,750	
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	INTELLIGENCE AND COMMUNICATIONS		130,142			
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TOTAL DEFENSE MAPPING AGENCY

			130,142			
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PAGE D-7

UNCLASSIFIED



## UNCLASSIFIED

STRATEGIC DEFENSE INITIATIVE ORGANIZATION  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST &amp; EVAL DEF AGENCIES

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987	C
13	63220C SURVEILLANCE, ACQSN, TRACK & KILL ASSESSMENT	2	10,000	545,950	1,386,344	1,874,923	U
14	63221C DIRECTED ENERGY WEAPONS	2	9,500	378,399	965,441	1,195,575	U
15	63222C KINETIC ENERGY WEAPONS	2	10,000	255,950	859,724	1,238,569	U
16	63223C SYSTEMS CONCEPTS AND BATTLE MANAGEMENT	2	10,000	99,000	243,300	272,527	U
17	63224C SURVIVABILITY, LETHALITY & KEY SPT TECHNOLOGY	2	10,000	112,000	258,153	316,701	U
	ADVANCED TECHNOLOGY DEVELOPMENT		49,500	1,389,299	3,712,962	4,896,295	
62	65898C MANAGEMENT HEADQUARTERS SDI	6	500	8,000	9,222	10,002	U
TOTAL	STRATEGIC DEFENSE INITIATIVE ORGANIZATION		50,000	1,397,299	3,722,184	4,908,297	

PAGE D-8

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF DEFENSE (OSD AND OASDS)  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST &amp; EVAL DEF AGENCIES

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
			THOUSANDS OF DOLLARS			
18	63225D JOIN DOD-DOE MUNITIONS TECH DEV	2		4,994	6,413	9,237 U
20	63702D SPECIAL TECHNOLOGY OFFICE/USDR&E	2	4,700	7,941	4,177	4,581 U
21	63703D COUNTER INSURGENCY & SPECIAL TECHNOLOGY	2		4,994	11,421	12,781 U
	ADVANCED TECHNOLOGY DEVELOPMENT		4,700	17,929	24,011	26,599
30	28045D C3 INTEROPERABILITY (JOINT TACTICAL C3 AGCY)	4			72,152	77,813 U
31	28298D MANAGEMENT HEADQUARTERS (JTC3A)	4			1,472	1,470 U
	TACTICAL PROGRAMS				73,624	79,283
48	65104D TECHNICAL SUPPORT TO USDR/E	6	27,470	28,633	23,593	27,942 U
49	65106D GENERAL SUPPORT FOR PA/E	6	1,959	2,198	3,489	5,351 U
50	65107D SUPPORT TO POLICY	6	3,905	5,993	6,445	9,867 U
51	65108D GENERAL SUPPORT FOR NET ASSESSMENT	6	3,621	3,797	4,032	5,463 U
52	65109D GENERAL SUPPORT FOR MRA/L	6	2,350	2,825	3,117	4,433 U
53	65110D CRITICAL TECHNOLOGY	6		2,597	2,792	3,724 U
54	65112D TECHNICAL ANALYTICAL SUPPORT	6			16,001	17,542 U
56	65113D TAPIOSTRY	6	700	300	2,793	2,940 U

PAGE D-9

UNCLASSIFIED

UNCLASSIFIED

DEPARTMENT OF DEFENSE (OSD AND OASDS)  
FY 1986 R D T & E PROGRAM

**EXHIBIT R-1**

DATE: 04 FEB 1985

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

THOUSANDS OF DOLLARS

LINE NO	PROGRAM ELEMENT NUMBER
1	1
2	2
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100	100

## ITEM NOMENCLATURE

# ACT

Y 1984

FY 1985

FY 1986

FY 1987 C

65 01015D TECHNOLOGY TRANSFER FUNCTIONS  
DEFENSEWIDE MISSION SUPPORT

919

1,

**1,645**

**1,825 U**

**DEFENSEWIDE MISSION SUPPORT**

**47, 262**

63,907

79,087

TOTAL DEPARTMENT OF DEFENSE (OSD AND OASD)

**85, 191**

**181,542**

**184,989**

UNCLASSIFIED

**PAGE D-10**

## UNCLASSIFIED

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST &amp; EVAL DEF AGENCIES

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	THOUSANDS OF DOLLARS
1	61101E DEFENSE RESEARCH SCIENCES	1	111,913	80,700	92,800	97,900 U	
3	61103E UNIVERSITY RESEARCH	1			6,250	12,500 U	
4	62101E TECHNICAL STUDIES	1	1,200	1,500	1,800	2,000 U	
5	62107E THIRD GENERATION DEFENSE TECHNOLOGY	1	6,840				
6	62301E STRATEGIC TECHNOLOGY	1	207,734	185,750	254,400	315,100 U	
7	62702E TACTICAL TECHNOLOGY	1	103,436	107,400	102,000	130,000 U	
8	62707E PARTICLE BEAM TECHNOLOGY	1	30,900	17,400	21,500	15,500 U	
9	62708E INTEGRATED CMD/CONTROL TECH	1	43,519	53,000	53,000	57,500 U	
10	62712E MATERIALS PROCESSING TECH	1	24,634	28,200	33,000	46,000 U	
11	62714E NUCLEAR MONITORING	1	14,447	18,500	19,400	20,300 U	
	TECHNOLOGY BASE		544,623	472,450	583,950	696,800	
19	63226E EXP EVAL OF MAJOR INNOVATIVE TECH	2	281,456	193,505	175,249	201,542 U	
55	65112E TECHNICAL ANALYTICAL SUPPORT	6		14,700			
57	65114E BLACKLITE	6		4,000	4,000	4,000 U	
58	65502E SMALL BUSINESS INNOVATIVE RESEARCH	6	2,000				
61	65805E TRI-SERVICE NATL LASER TEST RANGE	6	24,000				

UNCLASSIFIED

PAGE D-11

UNCLASSIFIED

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				E
			FY 1984	FY 1985	FY 1986	FY 1987	
63	65898E MGT HQ (RESEARCH/DEVELOPMENT)	6	11,350	11,430	13,148	13,500	U
	DEFENSEWIDE MISSION SUPPORT		37,350	30,130	17,148	17,500	

TOTAL DEFENSE ADVANCED RESEARCH PROJECTS AGENCY

863,429 696,085 776,347 915,842

UNCLASSIFIED

PAGE D-12

UNCLASSIFIED

NATIONAL SECURITY AGENCY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

3  
E

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
35	310110 CRYPTOLOGIC ACTIVITIES	5				
40	334010 COMMUNICATIONS SECURITY	5				
43	351590 DEF RECONNAISSANCE ACTIVITIES	5				
45	351670 COMPUTER SECURITY	5				
47	358850 TACTICAL CRYPTOLOGIC ACTIVITIES	5				
	INTELLIGENCE AND COMMUNICATIONS					

TOTAL NATIONAL SECURITY AGENCY

PAGE D-13

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DEFENSE NUCLEAR AGENCY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

DATE: 04 FEB 1985

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST &amp; EVAL DEF AGENCIES

PROGRAM LINE ELEMENT NO NUMBER		ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
				THOUSANDS OF DOLLARS			
12	62715H	DEFENSE NUCLEAR AGENCY	1	320,836	353,889	384,361	393,886 U
TOTAL		DEFENSE NUCLEAR AGENCY		320,836	353,889	384,361	393,886

PAGE D-14

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DEFENSE RECONNAISSANCE SUPPORT PROGRAM  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

DATE: 04 FEB 1985

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

PROGRAM ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
44	351591 DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES	5	318,186	354,620	268,235	
	TOTAL DEFENSE RECONNAISSANCE SUPPORT PROGRAM		318,186	354,620	268,235	

THOUSANDS OF DOLLARS

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PAGE D-15

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DEFENSE COMMUNICATIONS AGENCY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST &amp; EVAL DEF AGENCIES

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C	THOUSANDS OF DOLLARS
22	35108K COMMAND AND CONTROL RESEARCH	2	1,528	2,011	2,313	2,799 U	
23	63734K ISLAND SUN	3			17,000	35,000 U	
24	63735K WMMCCS ARCHITECTURE	3	1,227				
25	32016K NMCS-WIDE SUPPORT	3	18,028	28,419	43,498	28,752 U	
26	32017K WMMCCS ADP-JTSA	3	7,613	1,493			
27	32019K WMMCCS SYSTEM ENGINEER	3	38,220	29,252	21,254	17,208 U	
28	33131K MINIMUM ESSENTIAL EMER COMM NETWORK	3	12,613	14,359	12,398	11,443 U	
	STRATEGIC PROGRAMS		77,701	73,523	94,150	92,401	
29	21135K CINC C2 INITIATIVES	4	2,050	2,130	2,083	2,169 U	
38	33126K LONG-HAUL COMMUNICATIONS (DCS)	5	19,480	10,181	18,935	20,199 U	
39	33127K SUPPORT OF THE NCS	5	3,023	7,974	5,686	5,784 U	
	INTELLIGENCE AND COMMUNICATIONS		22,503	18,155	24,621	25,983	
	TOTAL DEFENSE COMMUNICATIONS AGENCY		103,782	95,819	123,167	123,352	

PAGE D-16

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## UNCLASSIFIED

DEFENSE INTELLIGENCE AGENCY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST &amp; EVAL DEF AGENCIES

DATE: 04 FEB 1985

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
36	31301L GENERAL DEFENSE INTELLIGENCE PROGRAM	5				
37	31398L MANAGEMENT HEADQUARTERS ODIP	5				
46	35884L INTEL PLAN AND REVIEW ACTYS	5				
	INTELLIGENCE AND COMMUNICATIONS					

TOTAL DEFENSE INTELLIGENCE AGENCY

PAGE D-17

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DEFENSE LOGISTICS AGENCY  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST &amp; EVAL DEF AGENCIES

DATE: 04 FEB 1985

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
59	65801S DEFENSE TECHNICAL INFO CENTER	6	19,050	17,408	21,856	25,824 U
60	65802S INFORMATION ANALYSIS CENTERS	6	4,500	5,750	6,550	7,050 U
64	78011S INDUSTRIAL PREPAREDNESS	6		1,927	5,000	6,500 U
	DEFENSEWIDE MISSION SUPPORT		23,550	25,083	33,206	39,374
TOTAL	DEFENSE LOGISTICS AGENCY		23,550	25,083	33,206	39,374

PAGE D-18

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UNIFORMED SERVICES UNIVERSITY HEALTH SCIENCES  
FY 1986 R D T & E PROGRAM

EXHIBIT R-1

DATE: 04 FEB 1985

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO NUMBER	ITEM NOMENCLATURE	ACT	FY 1984	FY 1985	FY 1986	FY 1987 C
2	61101W IN-HOUSE LAB INDEPENDENT RESEARCH	1	1,767	1,801	1,981	2,121 U
TOTAL	UNIFORMED SERVICES UNIVERSITY HEALTH SCIENCES		1,767	1,801	1,981	2,121

PAGE D-19

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